LAWRENCE LIVERMORE NATIONAL LABORATORY 7000 EAST AVENUE, L-198, LIVERMORE, CALIFORNIA, 94550

SUBJECT: Report of Foreign Travel to Beijing, China

DATE: January 27, 2020

TO: Dr. Angela Chambers, USDOE Nuclear Criticality Safety Program Manager

National Nuclear Security Administration, NA-51

FROM: Jesse Norris, Nuclear Criticality Safety Division, Lawrence Livermore National

Laboratory

MEETING TITLE

2019 International Conference on Nuclear Data for Science and Technology (ND2019)

MEETING LOCATION

China National Convention Center, Beijing, China

MEETING DATES

May 20-24, 2019

ATTENDEES ON BEHALF OF NCSP

Catherine Percher and Jesse Norris

MEETING PURPOSE

The International Conference on Nuclear Data for Science and Technology is the premier conference concerning nuclear data and its applications. ND2019 is organized every three years by the Nuclear Energy Agency of the Organization for Economic Cooperation and Development (OECD-NEA).

The conference is attended by the experimentalists who perform the cross section measurements, the theorists who develop the fundamental models of nuclear reactions, the evaluators who combine the fundamental models and the measurement results into a standard nuclear data format, the developers who write nuclear data processing codes to make the data usable by radiation transport codes (such as COG, MCNP, and SCALE), and the end-users of the nuclear data (e.g. nuclear criticality safety engineers). This conference brings together the experts in all areas of nuclear data to assess the current needs and determine the future direction of the field.

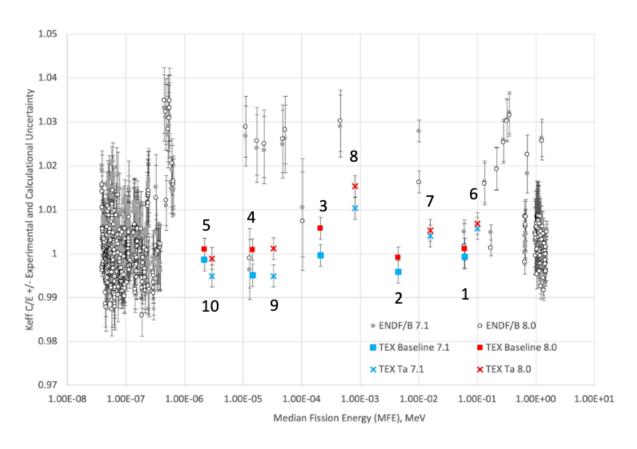
The final program for the conference is attached.

MEETING BENEFIT TO NCSP

There were several tracks related to the work that the NCSP supports, including: evaluation (ND), thermal scattering data (ND), integral experiments (IE), nuclear data processing (AM), and nuclear data validation (AM). The most impactful presentations from each of the sessions relevant to NCSP are included in the following sections. The conference also included a meeting

of WPEC Subgroup-45, related to validation suites for radiation transport codes. A summary of the meeting is included in the following section.

Catherine Percher presented her DOE Nuclear Criticality Safety Program funded research in a paper entitled "Nuclear Data Implications of TEX, Ten New Critical Experiment with Plutonium and Tantalum." The results were so impactful that the closing plenary speaker and chair, Dave Brown of Brookhaven National Laboratory, presented the C/E results from the TEX experiment in his closing presentation for the entire international nuclear data community. Catherine's TEX results shown by Dave Brown in his closing presentation are included in the figure below.



WPEC-Subgroup 45 – Validation of Nuclear Data Libraries (VaNDaL)¹

The purpose of the VaNDaL WPEC Subgroup is to create a standardized quality assurance process for experiment suites which are used to validate radiation transport codes (e.g. COG, MCNP, and SCALE). Currently, these validation suites are largely institutional with only ad hoc methods of inter-comparison, which limits the sharing of knowledge or mistakes that have been fixed. A robust method of inter-comparison would allow better code validation for nuclear criticality safety and determination of the upper subcritical limit.

This meeting focused on the best methods for sharing the inputs (for quality assurance) and output results (for inter-comparison). Catherine Percher presented an inter-comparison study of benchmark results using data from LLNL, ORNL, LANL, and IRSN. The inter-comparison

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¹ Fleming, Michael, WPEC Subgroup 45 (VaNDaL) Meeting, "Summary Record" (WPEC/45/19/05/2). China National Convention Center, Beijing, China. May 22, 2019.

showed differences that were attributable to input errors. Wim Haeck of Los Alamos National Laboratory addressed the difficulty of sharing input and output results and proposed a common JSON format include the standard results relevant for most benchmarks. Additionally, participants gave updates on their status of sharing inputs for benchmarks, including LLNL intending to provide around 2000 COG benchmarks.

Integral Experiments (IE-Related Track)

"Nuclear Data Implications of TEX, Ten New Critical Experiments with Plutonium and Tantalum" – Catherine Percher (Lawrence Livermore National Laboratory)

"Current Overview of ICSBEP and IRPhEP Benchmark Evaluation Practices" – John Bess (Idaho National Laboratory)

"Contributions to Integral Nuclear Data in ICSBEP and IRPhEP Since ND2016" – John Bess (Idaho National Laboratory)

• Provided a detailed overview of the 2018 edition of the International Criticality Safety Benchmark Evaluation Project Handbook. The handbook included 574 evaluations with benchmark specifications for 4,916 critical, near-critical, and sub-critical configurations.

"National Criticality Experiments Research Center (NCERC) – Capabilities and Recent Measurements" – Nicholas Thompson (Los Alamos National Laboratory)

"Use of Shielding Integral Benchmark Archive and Database for Nuclear Data Validation" – Ivan Kodeli (Jozef Stefan Institute, Ljubljana, Slovenia)

• Advocates for the use of shielding benchmarks for the validation and improvement of nuclear data, which is the mission of a new WPEC Subgroup (WPEC SG47) entitled "Use of Shielding Integral Benchmark Archive and Database for Nuclear Data Validations." Emphasized that critical experiments introduce biases and compensation effects. This highlights an internationally accepted need for a variety of integral experiments, in addition to the critical experiments performed at NCERC, which could be adopted by the NCSP's integral experiment or nuclear data program elements.

Nuclear Data Processing and Validation (AM-Related Track)

"Status of IRSN Nuclear Data Processing System GAIA-2" – Clément Jeannesson (Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France)

"Current Status of the GALILEE-1 Processing Code" – Cedric Jouanne (CEA, Saclay, France)

"Implementation of URR and NTSL in GNDS Format Using FUDGE" – Bret Beck (Lawrence Livermore National Laboratory)

• Updated on the status of FUDGE, the LLNL nuclear data processing code (like NJOY). FUDGE was created to process the new Generalized Nuclear Data Format (GNDS), developed by WPEC Subgroup-38, to replace the current nuclear data format, ENDF6.

This represents a major change to the nuclear data format that nuclear data processing codes supported by the NCSP (such as NJOY) must be able to handle in the future.

"Benchmarking ENDF/B-VIII.0 Using the LANL Expanded Criticality Validation Suite for MCNP" – Ramon Arcilla (Brookhaven National Laboratory)

"Advance: the ENDF Quality Assurance System" – David Brown (Brookhaven National Laboratory)

Evaluation and Thermal Scattering Data (ND-Related Track)

"Experimental Validation of the Temperature Behavior of the ENDF/B-VIII.0 Thermal Scattering Kernel for Light Water" – Jose Ignacio Margquez Damian (Centro Atomico Bariloche – Comision Nacional de Energia Atomica)

"Thermal Scattering for Neutron Moderator Materials: Integrating Neutron Scattering Experiments with Density Functional Theory Simulations" – Li Liu, Yaron Danon, Kemal Ramic, and Carl Wendorff (Rensselaer Polytechnic Institute)

 New methodology for evaluating thermal scattering laws from experimental data based on measurements from the Spallation Neutron Source of Oak Ridge National Laboratory. The measurements were performed for polyethylene and the methodology extended to water and Lucite. Compared to ENDF/B-VII.1, the new thermal scattering laws showed improved calculation accuracy for the HEU-MET-THERM benchmarks.

"Processing and Application of Nuclear Data for Low Temperature Criticality Assessment" – Tim War (Wood, United Kingdom)

"New Paradigm for Nuclear Data Evaluation" – Mike Herman (Los Alamos National Laboratory)

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21	May, Room205, Topic: Nuclear Data Processing and Validation Session: Nuclear data processing 1 (Cedric Jouanne)	6 6 6 7 7
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23	May, Room203, Topic: Evaluation Session: Thermal scattering data 1 (Jose Ignacio Marquez Damian)	32 32 32 33
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23	May, Room302, Topic: Nuclear Data Application Session: Nuclear data in fusion application (Rafael Rivera)	39 39 39
23	May, Room303, Topic: Spallation, High and Intermediate Energy Reactions Session: Spallation, high and intermediate energy reactions 2 (Zhiqiang Chen)	40 40
23	May, Room303, Topic: Nuclear Data Processing and Validation Session: Integral experiments 1 (Ivan Kodeli)	40 41 41 41
24	May, Auditorium, Topic: Plenary B Session: Plenary B1 (Arjan Plompen)	42 42 42

Mon Ma	ay 20	14:00-18:25	Plenary-Hall-B
	Topic	Track: Plenary A	
	Sessio	n Title: Plenary A1	
	Chair:	Tokio Fukahori	
14:00	L001	The Joint Evaluated Fission and Fusion Plompen (European Commission - Joint F	• ,
14:35	L002	Recent Results from the Neutron Inducement Using the FissionTPC / Nathaniel I Laboratory, USA)	ed Fission Fragment Tracking Experi-
15:10	L003	Correlated Transition of TKE and Mas Satoshi Chiba (Tokyo Ins. of Technology,	,
15:45		Break	- ,
	Topic	Track: Plenary A	
	Sessio	n Title: Plenary A2	
	Chair:	Arjan Koning	
16:05	L004	The CONRAD Code, A Tool for Nuclear Modelling / Cyrille De Saint Jean (CEA,	
16:40	L005	Fast Neutron Capture Reaction Data No Development of Nuclear Transmutation Ins. of Technology, Japan)	
17:15	L006	Nuclear and covariance data adjustment new methods and approaches / Massimo and Fuel Cycle, France)	
17:50	L007	CENDL3.2: The New General Purpose N Nuclear Data Center, Beijing)	Juclear Database / Zhigang Ge (China

Tue May 21		8:30-12:30	Room 202
	Topic	Track: Nuclear Theory, Model and Codes	
	Session	n Title: Nuclear reaction theory models and co	odes 1
	Chair:	Gilles Noguere	
08:30	1008	Novel Challenges for FLUKA: Status of the Code	and A Review of Recent
		Developments / Alfredo Ferrari (CERN, Switzerlan	d)
0 9:00	R009	Total Cross Section Model with Uncertainty Events	,
		Shintaro Hashimoto (Japan Atomic Energy Agency)	
0 9:20	R 010	Synergy of Nuclear Data and Nuclear Theory C	,
00.40	D 011	(FLNR, Joint Ins. for Nuclear Research, Dubna, Rus	,
0 9:40	R 011	Recent Progress of A Code System Deuracs To	
10:00	R012	Data Evaluation / Shinsuke Nakayama (Japan Ator Systematic Formalism for the (n,p) Reaction Cros	,
10:00	N012	MeV with Explicit Description of MSC and MSD	
		Particle Emission / Olumide Oluwasanmi Ige (Phys	
		Defence Academy Kaduna)	
10:20		Break	
	Topic	Track: Nuclear Theory, Model and Codes	
	_	n Title: Nuclear reaction theory models and co	odes 2
	Chair:	Alfredo Ferrari	
10:40	R013	Systematic Uncertainties of E1 Photon Strength F	unctions Extracted from
		Photodata / Oleksandr Gorbachenko (Taras Shev	chenko National Uni. of
		Kyiv, Kyiv, Ukraine) / Speaker: Stephane Goriely	
11:00	R014	Comparative Analysis of Neutron Activation Cros	
		Used As Cladding in Miniature Neutron Source	,
11.00	D015	Oluwasanmi Ige (Physics Department Nigerian Defe	-
11:20	R015	Nucleon-transfer Reactions for Low-energy Deuter pujol Francesc (on Behalf Of The Fluka Collaboration	,
11:40	R016	Consistent Assessment of Deuteron Interactions a	, , , , , , , , , , , , , , , , , , , ,
11.40	NOIO	ergies / Marilena Avrigeanu (Horia Hulubei Natio	
		Nuclear Engineering (IFIN-HH), Romania)	inar ins. for 1 hystos and
12:00	R017	Alpha-nucleus Optical Potential Based on the Isos	spin-dependent DBHF /
		Zhi Zhang (CIAE, China)	
12:20	S 018	The Cross Sections and Energy Spectra of the Pa	article Emission in $lpha$ In-
		duced Reaction on ${}^{54,56,57,58,\mathbf{nat}}Fe$ and ${}^{63,65,\mathbf{nat}}Cu$	/ Xinwu Su (Shanxi Da-
		tong Uni., Datong , China) / Speaker: Yongli Xu	
12:25	S 019	Employing Talys to Deduce Initial JRMS in Fission	Fragments / Ali Al-adili
		(Uppsala Uni., Sweden)	

Tue	May 21	14:00-17:50	Room 202
	Topic	Track: Nuclear Theory, Model and Codes	
	Session	a Title: Nuclear reaction theory models and	codes 3
	Chair:	Helmut Leeb	
14:00	0 1020	Multiband Coupling and Nuclear Softness in Op	tical Model Calculations for
		Even-even and Odd-A Actinides / Dmitry Martya	nov (Joint Ins. for Power and
		Nuclear Research - Sosny, Belarus)	
14:30) R021	Global Phenomenological Optical Model Potential	
		Light Projectiles / Yongli Xu (College of Physics as	nd Electronic Science, Shanxi
14 50	D000	Datong Uni., Datong, China)	dala Fasiasian Gama Fasikada
14:50) R022	The Dark Side of Alpha-particle Optical Potent Nuclei / Vlad Gabriel Avrigeanu (Horia Hulubei I	
		Nuclear Engineering (IFIN-HH), Romania)	vational ms. for 1 mysics and
15:10	R023	Unified Description of Bound States and Nucleon	Scattering for Double Magic
20110		Nuclei by A Lane-consistent Dispersive Optical I	
		(Ins. of Applied Physics and Computational Mathe	•
15:30	R024	Comparison of Practical Expressions for E1 Ph	oton Strength Functions /
		Oleksandr Gorbachenko (Taras Shevchenko Nationa	l Uni. of Kyiv, Kyiv, Ukraine)
		/ Speaker: Ihor kadenko	
15:50)	Break	
	Topic	Track: Nuclear Theory, Model and Codes	
	Session	a Title: Nuclear reaction theory models and	codes 4
	Chair:	Dmitry Martyanov	
16:10	0 1025	Developments Regarding Three-body Reaction Cl	hannels Within the R-matrix
		Formalism / Helmut Leeb (TU Wien, Austria)	
16:40	R026	Monte Carlo Simulation of Gamma and Fission	
		Extended R-matrix Theory / Olivier Bouland (C	CEA/DER/SPRC/LEPh, CE
1= 00	. D oo t	Cadarache, Saint-Paul-lez-Durance, France)	N 1 5 5 5 1 11
17:00) R027	Modernization of Sammy: An R-matrix Bayesia	in Nuclear Data Evaluation
17:20) R028	Code / Goran Arbanas (ORNL, USA) R-matrix Analyses of Light Element Reactions /	Paris Mark (T 2 Theoretical
11.20) NU26	Division, LANL, USA)	Tans Mark (1-2, Theoretical
17:40	S029	Theoretical Calculation of Micro Data for the Nu	clear Reaction of p+27Al up
	. 23_0	to 200 MeV / Zhengjun Zhang (North West Uni.	-
17:45	5 S 030	An Evaluation of the Alpha-cluster Formation I	
		Odsuren Myagmarjav (Nuclear Research Center, Na	tional Uni. of Mongolia, Mon-
		golia)	

Tue M	lay 21	8:30-12:20	Room 203
	Topic	Track: Evaluation	
	Session	n Title: Evaluation methodology 1	
	Chair:	Nobuyuki Iwamoto	
08:30	l 031	New Paradigm for Nuclear Data Evaluation / Micha	al Herman (LANL, USA)
09:00	R032	Prompt Fission Neutron Spectra of ²³⁸ U(n,F) and	d 232 Th(n,F) / Vladimir
		M. Maslov (Joint Ins. of Nuclear and Energy Research	ch, 22 0109, Minsk-Sosny,
00.00	Dogo	Belarus)	
0 9:20	R033	Interfacing TALYS with A Bayesian Treatment of Model Defects / Georg Schnabel (Uppsala Uni., Sw	
09:40	R034	The RAC-CERNGEPLIS Evaluation Method for Gl	,
00.40	NOOT	Chen (Tsinghua Uni., China)	obdi i itting / Znenpeng
10:00	R035	Theoretical Calculations and Covariance Analysis	for $n+^{40}$ Ca Reactions /
		Yue Zhang (China Inst. of Atomic Energy)	·
10:20		Break	
	Topic	Track: Evaluation	
	Session	n Title: Evaluation methodology 2	
	Chair:	Michal Herman	
10:40	R036	New Reaction Evaluations for Chromium Isot	opes / Gustavo Nobre
4	5	(Brookhaven National Laboratory, USA)	
11:00	R037	New Evaluations of W-182,184,186 General Purpos	
		Data up to 200 MeV Neutron Energy / Alexander Ins. of Technology, Germany)	er Konobeyev (Karisrune
11:20	R038	²³³ U Cross Section Comparison Evaluation Betwee	en SAMMY and FITWR
		Code Fitting Procedures / Mohammad Alrwashdeh	
		dan)	
1 1:40	R 039	Evaluation of Neutron Induced Reactions on Fe-56	with CONRAD / Maria
	_	Diakaki (CEA, DEN Cadarache, F-13 108 Saint Pau	
12:00	S 040	Calculation of Stricken to Mortality and Incidence	
		Design Basis Accidents (BDBA) in Populations N Hadi Shamoradifar (Payam e noor university, Iran)	lear Nuclear Facilities /
12:05	S 041	Some Ideas Need Discussion in Global Fitting for N	Nuclear Data Evaluation
12.00	3041	/ Zhenpeng Chen (Tsinghua university, China)	vacical Bata Evaluation
12:10	S 042	The Evaluations of Gamma-induced V-51 $/$ Lin L	i (China Inst. of Atomic
		Energy)	•
12:15	S 043	Development the Nuclear Decay Data Sublibrary	y for Fission Product /
		Xiaolong Huang (China Nuclear Data Center)	

Tue N	1ay 21	14:00-17:50	Room 203
	_	Track: Evaluation	
	Session	Title: Evaluation methodology 3	
	Chair:	Cyrille De Saint Jean	
14:00	1044	Resonance Evaluations of Gadolinium Isotopes / Luiz Leal (Institut de Radio- protection et de Surete Nucleaire, France)	
14:30	-		
14:50	R046	Unified Bayesian Evaluation of Oxygen Based on the / Helmut Leeb (TU Wien, Austria)	ne Hybrid R-matrix Method
15:10	R047	New Perspectives in Neutron Reaction Cross-sect sistent Multichannel Modeling Methodology: Aprilia Nizigama (CEA/DER/SPRC/LEPh, CE Cadarac Durance, France) / Speaker: Olivier Bouland	oplication to 16-0 / Aloys
15:30 15:50	R048	Evaluation and Validation of 28,29,30 Si Cross Sectinance Region / Roberto Capote (IAEA) Break	ons in the Resolved Reso-
	Topic	Track: Evaluation	
	Session	Title: Evaluation methodology 4	
	Chair:	Luiz Leal	
16:10	R049	On the Use of Indicator for Measuring Goodness Evaluation of Nuclear Data / Cyrille De Saint Jean	-
16:30	R050	Prompt Fission Neutron Spectra of ²³⁷ Np(n,F) and M. Maslov (Joint Ins. of Nuclear and Energy Resear	• • •
16:50	R051	Can Machine Learning Techniques Help Us to Solv / Denise Neudecker (LANL, USA) / Speaker: LA-TI	
17:10	R052	The Systematics of Nuclear Reaction Excitation Fu Inst. of Atomic Energy)	
17:30	R053	New 23 Na Nuclear Data Evaluation Taking Into and Double Differential Experiments / Pascal Arch	

Tue M	ay 21	8:30-12:30	Room 205
	Topic	Track: Nuclear Data Processing and Validatio	n
	Session	a Title: Nuclear data processing 1	
	Chair:	Cedric Jouanne	
08:30	1054	Status of the IRSN Nuclear Data Processing Sys	,
		Jeannesson (Institut de Radioprotection et de Sû France)	reté Nucléaire (IRSN),
09:00	R055	Analyzing the Distribution of Scattering Angle in Australian Using the Maximum Entropy Method / Shuaitao Zhangower Uni.)	
09:20	R056	Study on Consistent PN Cross Section Process M / Xubo Ma (North China Electric Power Uni.)	ethod for Fast Reactor
0 9:40	R057	Upgrade on Neutron-gamma Coupled Multi-group tem / Xiaofei Wu (China Nuclear Data Center)	Data Generation Sys-
10:00	R058	Development of Multi-group Nuclear Engineering for Neutronics Calculation of Light Water Reactor	•
10.00		Jiaotong Uni., China)	
10:20		Break	
		Track: Nuclear Data Processing and Validatio	n
		n Title: Nuclear data processing 2 Clément Jeannesson	
10:40	1059		/ Cadria Iauanna (CEA
10:40	เบอย	Current Status of the GALILEE-1 Processing Code Saclay, France)	/ Cedite Jouanne (CEA
11:10	1060	Implementation of URR and NTSL in the GNDS F	ormat Using FUDGE /
		Bret Beck (Lawrence Livermore National Laboratory	, USA)
11:40	R061	New R-matrix Resonance Reconstruction in NJOY2 ${\rm USA})$	21 / Wim Haeck (LANL,
12:00	R062	Development and Verification of Resonance Elastic	<u> </u>
		cessing Module in Nuclear Data Processing Code N	ECP-Atlas / Jialong Xu
12:20	S 063	(Xi'an Jiaotong Uni., China) Application of hyperfine group self-shielding calculations	ation method to lattice
12.20	3000	and whole-core physics calculation / Wen Yin (School	
		Technology, Xi'an Jiaotong Uni., Xi'an, Shaanxi, Chi	
12:25	S 064	Updates of the Pressurized Water Reactor Burnup	
		Based on the Latest ENDF/B-VIII.0 Data / Chao Engineering Research & Design Ins. CO., LTD, Chin	- \ -
		0 o	

Tue N	1ay 21	14:00-18:00	Room 205
	Topic	Track: Nuclear Data Processing and Validation	
	Session	Title: Nuclear data processing 3	
	Chair:	Haicheng Wu	
14:00	1065	Progress of the Development of the Nuclear Data Atlas / Tiejun Zu (Xi'an Jiaotong University, China)	Processing Code NECP-
14:30	1066	Advanced Neutronics Software SuperMC and	Its Real Time Multi-
11.00	.000	temperature Cross Sections Generation Method /	
		Energy Safety Technology, Chinese Academy of Science	- `
15:00	R067	NDPlot: A Plotting Tool for Nuclear Data / Yongli	`
		Center, China Inst. of Atomic Energy, Beijing 10 2413	•
15:20	R068	Progress Towards International Adoption of GNDS /	Caleb Mattoon (Lawrence
15 40	C 0.00	Livermore National Laboratory, USA)	. D 'I E " '
15:40	S 069	On the Use of the Integral Data Assimilation Technion Evaluated Nuclear Data: Application to the J	-
		Post-irradiation Examinations / Gilles Noguere (CEA	
15:50		Break	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Topic	Track: Nuclear Data Processing and Validation	
	Session	n Title: Nuclear data adjustment 1	
	Chair:	Tiejun Zu	
16:10	1070	Trends on Major Actinides from an Integral Data Appault (CEA, DEN, DER, SPRC, Cadarache, F-St Pau Speaker: Gilles Noguere	,
16:40	R071	Researches on Nuclear-data Adjustment for the Sod	ium-cooled Fast Reactor
		/ Chenghui Wan (Xi'an Jiaotong Uni., China)	
17:00	R072	Using Tanimato Measure to Assess Similarities of Diff / Kai Fan (CAEP, China)	Ferent Critical Assemblies
17:20	R073	Impact of Nuclear Data Evaluations on Data Assimil	ation for An LFR / Pablo
		Romojaro (CIEMAT, Spain)	·
17:40	R074	Towards Rigorous Integral Feedback: Computing Resonance Parameters / Pierre Tamagno (CEA, Fran	

Tue May 21		8:30-12:30	Room 301
	Topic	Track: Nuclear Reaction Measurements	
	Session	n Title: Nuclear reaction measurements 1	
	Chair:	Jan Heyse	
0 8:30	1075	Gains: Neutron Inelastic Cross Section Measurer	-
		plications and Reaction Studies / Alexandru Liv	o (
09:00	R076	National Ins. for Physics and Nuclear Engineering, Neutron Inelastic Cross Sections on ¹⁶ O / Marian	,
บอะบบ	KU1U	National Ins. for Physics and Nuclear Engineering,	`
09:20	R077	Neutron Inelastic Cross Sections on ⁵⁴ Fe / Adia	· · · · · · · · · · · · · · · · · · ·
		National Ins. for Physics and Nuclear Engineering,	Magurele, Romania)
09:40	R078	Fast Neutron Inelastic Scattering from $^7 \text{li}$ / R	Coland Beyer (Helmholtz-
		Zentrum Dresden-Rossendorf, Germany)	
10:00	R079	Measurement of the Angular Distribution of N	
		Deuterium Below 3 MeV / Elisa Pirovano (Physil	kalisch-Technische Bunde-
10:20		sanstalt, Germany) Break	
10.20			
	Topic	Track: Nuclear Reaction Measurements n Title: Nuclear reaction measurements 2	
10.40		Alexandru Liviu Negret	E "" CELINA I
10:40	1080	Nuclear Data Activities at the EC-JRC Neutron MONNET / Jan Heyse (European Commission - Jo	
		gium)	omi research centre, ber-
1 1:10	R081	Measurement of the ¹³ C Absorption Cross Section	n Via Neutron Irradiation
		and AMS / Tobias Wright (Uni. of Manchester, Un	nited Kingdom)
11:30	R082	Profil-2 Experiment and Neutron Capture Cross S	Sections of Europium Iso-
		topes / Shengli Chen (CEA, France)	
11:50	R083	241 Am Neutron Capture Cross Section Measured	
		the n_TOF Facility, CERN / Andreea Oprea (Horia	
12:10	R084	R&D in Physics and Nuclear Engineering (IFIN-HE	
12:10	KU84	Filtered Neutron Capture Cross-section of Hf-18 clear Research Institute, Vietnam)	u / Ngoc Son Fnam (Nu-
		orom responsitionation, vicinami	

Tue N	lay 21	14:00-18:00 Room 301	
	Topic	Track: Nuclear Reaction Measurements	
		n Title: Nuclear reaction measurements 3	
		Hiroaki Utsunomiya	
14:00	R085	Preliminary Results on the Neutron Induced Capture Cross Section and Alpha Ratio of ²³³ U at n_TOF with Fission Tagging / Michael Bacak (CERN, Switzerland)	
14:20	R086	Radiative Thermal-neutron Capture on 139 La / Aaron Hurst (Uni. of California, Berkeley, USA)	
14:40	R087	Measurement of the Pu-242(n, γ) Cross Section from Thermal to 500 KeV at the Budapest Research Reactor and CERN n_TOF-EAR1 Facilities / Jorge Lerendegui-marco (Universidad de Sevilla, Spain)	
15:00	R088	Measurement of Neutron-capture Cross Sections of Radioactive Minor Actinide Isotopes with High Time-resolution Neutron Pulses at J-PARC/MLF / Shoichiro Kawase (Japan Atomic Energy Agency)	
15:20	R089	Measurement of the Neutron Capture Cross Section of ²³⁷ Np Using ANNRI at MLF/J-PARC / Gerard Rovira Leveroni (Tokyo Ins. of Technology, Japan)	
15:40	S 090	Research on Neutron Total Cross-section Measurement at CSNS-WNS / Xingyan Liu (China Academy of Engineering Physics, Mianyang , China)	
15:45	S 091	Neutron Capture and Total Cross-section Measurement of Gd-155 and Gd-157 at ANNRI in J-PARC / Atsushi Kimura (Japan Atomic Energy Agency (JAEA))	
15:50		Break	
	Topic	Track: Nuclear Reaction Measurements	
		n Title: Nuclear reaction measurements 4	
		Tatsuya Katabuchi	
16:10	1092	GDR Cross Sections Updated in the IAEA-CRP / Hiroaki Utsunomiya (Konan Uni., Japan)	
16:40	R093	Study of Photon Strength Functions of Pu-241 and Cm-245 from Neutron Capture Measurements / Daniel Cano-ott (CIEMAT, Spain)	
17:00	R094	New Reliabile Photoneutron Reaction Data for ¹⁵⁹ Tb / Vladimir Varlamov	
17:20	R095	Measurement and Analysis of 155,157 Gd(n, γ) From Thermal Energy to 1 Kev / Cristian Massimi (INFN - Bologna, Italy)	
17:40	S 096	Neutron Inelastic Cross Section Measurements on 58,60 Ni / Adina Olacel (Horia Hulubei National Ins. for Physics and Nuclear Engineering, Romania)	
17:45	S 097	Neutron Resonance Transmission Analysis of Cylindrical Samples Used for Reactivity Worth Measurements / Lino Salamon (CEA, DER, DEN, Cadarache, F-Saint-Paul-les-Durance, France)	
17:50	S 098	Photodisintegration Reaction Rate Involving Charged Particles: Systematic Uncertainty from Nuclear Optical Model Potential and Experimental Solution Based on ELI-NP / Haoyang Lan (Uni. of South China)	
17:55	S 099	A Compact Photo-neutron Source Driven by 15 MeV Electron Linac / Jianlong Han (Shanghai Ins. of Applied Physics, Chinese Academy of Sciences, Shanghai , China)	

Tue M	lay 21	8:30-12:30	Room 302
	Topic	Track: Fission Physics and Observables	
	Session	Title: Fission theory and experimental 1	
	Chair:	Satoshi Chiba	
08:30	l100	Energy Dependent Fission Product Yields from of ²³⁵ U, ²³⁸ U, and ²³⁹ Pu / Anton Tonchev (Law Laboratory, USA)	
09:00	R101	Fission Studies at IGISOL/JYFLTRAP: Measuren	nents of Neutron-induced
		Fission Yields / Andreas Solders (Uppsala Uni., Bo	OX 516, Uppsala, Sweden)
09:20	R102	Product Yields from 0.57 MeV, 1.0 MeV and 1.	
		Fission of U-235 / Jing Feng (China Inst. of Atom	•
0 9:40	R103	Fission Studies at IGISOL/JYFLTRAP: Isomeric Y	
		from 25 MeV nat U(p,f), in the Quest for Angul	lar Momentum Studies /
10:00	D 104	Mattias Lantz (Uppsala Uni., Sweden)	Viold / No obiles Otassles
10:00	R104	Update of EXFOR for Experimental Fission Produ (IAEA) / Speaker: Shin Okumura	ict field / Naoniko Otsuka
10:20		Break	
	<i>T</i> D •		
	-	Track: Fission Physics and Observables	
		Title: Fission theory and experimental 2	
		Anton Tonchev	
10:40	l105	Energy Dependent Fission Yield Calculations with Feshbach Statistical Decay and Beta Decay / Statomic Energy Agency, Austria)	_
1 1:10	R106	Fission Study in Macro-microscopic Model /	Tieshuan Fan (School of
		Physics, Peking Uni., China) / Speaker: Zhiming V	Vang
11:30	R107	Calculation of Fission Fragment Mass Distribu empirical Method / Jounghwa Lee (Nuclear Data ergy Research Institute, Daejeon , Korea)	, ,
11:50	R108	Study of fission dynamics with a three-dimension	nal Langevin approach /
	_	Lile Liu (China Inst. of Atomic Energy)	
12:10	R109	A Global Parameterization for Fission Yields / An	my Lovell (LANL, USA)

Tue M	1ay 21	14:00-17:55	Room 302
	Topic	Track: Fission Physics and Observables	
	Session	n Title: Fission theory and experimental 3	
	Chair:	Ali Al-adili	
14:00	I 110	Parameter Optimization for Spontaneously Fissio Ramona Vogt (Nuclear and Chemical Sciences Divisional Laboratory, Livermore, CA, USA)	,
14:30	R111	Microscopic Study on Nuclear Fission Dynamics Functional Theory / Zhipan Li (School of Physic Southwest Uni., Chongqing, China)	
14:50	R112	A Monte Carlo Approach for Estimating Fission Fra Verriere (LANL, USA)	gment Distributions / Marc
1 5:10	R113	Calculation of the beta-delayed fission gamma datastant. of Atomic Energy)	ta / Nengchuan Shu (China
15:30	R114	Study of High-energy Fission and Quasi-fission of Giorgia Mantovani (INFN-LNL, Uni. of Padova, Ital	,
15:50		Break	
	Topic	Track: Fission Physics and Observables	
	Session	n Title: Fission theory and experimental 4	
	Chair:	Ramona Vogt	
1 6:10	l115	The VERDI Spectrometer - Opportunities and Chapartment of Physics and Astronomy, Uppsala Uni.,	_ ,
16:40	R116	FALSTAFF, An Apparatus to Study Fission Fragme Results / Quentin Deshayes (CEA Irfu, France)	ent Distributions: First Arm
17:00	R117	Performance of A Twin Position-sensitive Frisch-g Photofission Experiments* / Marius Peck (Institut Universität Darmstadt, Darmstadt, Germany)	
17:20	R118	Fission Fragments Observables Measurements at the eter / Christophe Sage (CNRS/LPSC, F-Grenoble, I	-
17:40	S 119	De ℓ Fin: A Talys-based Tool for the Comparison Andreas Solders (Uppsala Uni., BOX 51 6, Uppsala,	•
17:45	S 120	Discussion of Atomic Number Measurement of Fisclear Stopping Power / Wengang Jiang (Northwest China) / Speaker: Quanlin Shi	Ins. of Nuclear Technology,
17:50	S 121	Yield Evaluation for Several Chains of ²³⁵ U+n Fission Zhao (Shenyang Normal Uni., China)	on with Zp Model / Xiaoxue

Tue M	lay 21	8:30-12:30 Room 303	
		Track: Experimental Facilities, Equipment Techniques and Method	ds
		Title: Experimental facilities, equipment techniques and methods	, 1
		Markus Nyman	
08:30	l122	RAON: Rare Isotope Accelerator Complex for On-line Experiment / Youn Kwan Kwon (Rare Isotope Science Project (RISP) / Ins. for Basic Science (IBS), Korea)	
0 9:00	R123	Neutron Activation Experiment of ITER Concrete Based on HINEG D-Neutron Source / Jun Zou (Ins. of Nuclear Energy Safety Technology, CAS FDS Team, China)	
09:20	R124	Development of HINEG and Its Experimental Campaigns / Fang Wan (Ins. of Nuclear Energy Safety Technology, Chinese Academy of Sciences Hefei, Anhui, China) / Speaker: Yongfeng Wang	_
09:40	R125	A New LCS γ Source- Shanghai Laser Electron Gamma Source (SLEGS) A Shanghai Synchrotron Radiation Facility (SSRF) / Gongtao Fan (Shanghai Advanced Research Ins. Chinese Academy of Sciences, China)	
10:00	R126	Physics Design of the Next-generation Spallation Neutron Target moderator-reflector-shield Assembly Mark-IV at LANSCE / Lukas Zavork (LANL, USA)	
10:20		Break	
	Topic	Track: Experimental Facilities, Equipment Techniques and Method	$\overline{\mathrm{d}}\mathbf{s}$
	Session	Title: Experimental facilities, equipment techniques and methods	2
	Chair:	Young Kwan Kwon	
10:40	l127	New Equipment for Neutron Scattering Cross-section Measurements a GELINA / Markus Nyman (European Commission, Joint Research Centre Unit G.2 - Standards for Nuclear Safety, Security & Safeguards, Retiesewer 111, 2440 Geel, Belgium)	e,
11:10	R128	Current Status of KAERI Neutron Time-of-flight Facility and Its Performance Prediction Through Monte Carlo Simulations / Jong Woon Kin (Korea Atomic Energy Research Institute)	
11:30	R129	Neutron Beam Line for TOF Measurements at the Spanish National Acce erator Lab (CNA) / Miguel Macías Martínez (Universidad de Sevilla - Centr Nacional de Aceleradores, Spain)	
11:50	R130	Commissioning of An MRTOF-MS at IMP/CAS / Wenxue Huang (Ins. of Modern Physics, Chinese Academy of Sciences, China)	of
12:10	S 131	Laser-driven Neutrons for Time-of-flight Experiments? / Carlos Guerrer (Universidad de Sevilla (US), Spain) / Speaker: Jorge Lerendegui Marco	°O.
12:15	S 132	The Prototype Dosimetry System to Protect MPD Electronic Equipmer at the New NICA Collider. / Marcin Bielewicz (National Center for Nuclea Research, Swierk, Otwock, Poland)	
12:20	S 133	Neutron Source Evaluation for the Neutron Data Production System (NDPS) At RAON / Sangjin Lee (Ins. for Basic Science (IBS), Korea)	m
12:25	S 134	A Design of Transition-edge Sensor for Measuring Kinetic Energies of Fission Fragments / Xianglei Wang (Northwest Ins. of Nuclear Technology China)	

Tue N	1ay 21	14:00-17:55 Room 303
	Session	Track: Experimental Facilities, Equipment Techniques and Methods a Title: Experimental facilities, equipment techniques and methods 3
	Chair:	Heikki Penttila
14:00	l135	Status and Perspectives of the Neutron Time-of-flight Facility n_TOF at CERN / Enrico Chiaveri (European Organizatoin for Nuclear Research (CERN), Switzerland)
14:30	R136	Fission Studies at IGISOL/JYFLTRAP: Simulations of the Ion Guide for Neutron-induced Fission and Comparison with Experimental Data / Zhihao Gao (Uppsala Uni., BOX 516, Uppsala, Sweden.)
14:50	R137	Discovery of New Neutron-moderating Materials at ISIS Neutron and Muon Source / Goran Skoro (UK Research and Innovation Science and Technology Facilities, United Kingdom)
15:10	R138	Development of SONATE, A Compact Accelerator Driven Neutron Source / Loic Thulliez (IRFU, CEA, Université Paris-Saclay F-Gif-sur-Yvette France)
15:30	R139	Introduction of the C6D6 Detector System of the Back-n at CSNS $/$ Jie Ren (China Inst. of Atomic Energy)
15:50		Break
	_	Track: Experimental Facilities, Equipment Techniques and Methods
		Title: Experimental facilities, equipment techniques and methods 4
	Chair:	Enrico Chiaveri
16:10	l 140	Radioactive Ion Beam Manipulation at the IGISOL-4 Facility / Heikki Penttila (Uni. of Jyväskylä, Finland)
16:40	R141	Development of Stainless-steel Reflector for VR-1 Training Reactor / Jan Frybort (Czech Technical Uni. in Prague, Czech Republic)
17:00	R142	Characterization of Neutron Source for Nuclear Data Experiment in China / Jie Bao (China Inst. of Atomic Energy)
17:20	R143	Double-bunch Unfolding Method for the CSNS Back-n White Neutron Source / Han Yi (Ins. of High Energy Physics, Chinese Academy of Sciences, China) / Speaker: Taofeng Wang
17:40	S 144	Formation of A Thermal Neutron Beam and Measurement of Its Intensity at the Tandetron Accelerator / Konstantin Mitrofanov (Joint Stock Company "State Scientific Centre of the Russian Federation - Ins. for Physics and Power Engineering named after A.I. Leypunsky")
17:45	S 145	Analysis of the Systematic Errors in Determining the Time Stamp for the Digital Time-of-flight Neutron Spectrometer. / Pavel Prusachenko (I.I. Leypunsky Ins. for Physics and Power Engineering (IPPE), Bondarenko sq. 1, Obninsk , Russia)
17:50	S 146	In Searching of Leakage Location of Underground High Voltage Electric Cable Using Radiotracer Method / Sugiharto Sugiharto (Center for Isotopes and Radiation Application (CIRA), National Nuclear Energy Agency of Indonesia (BATAN))

Tue M	ay 21	8:30-12:25	Room 305
	Topic	Track: Nuclear Data Application	
	Session	n Title: Application in Nuclear Reactor 1	
	Chair:	Alejandro Sonzogni	
08:30	l147	Assessment of Representativity of the PETALE Ex of Swiss LWRs Ex-core Dosimetry Calculations / Scherrer Institut, Switzerland) / Speaker: Marco Pe	Dimitri Rochman (Paul cchia
0 9:00	R148	Development and Verification of WIMS-D Libra shielding Method / Yuechao Liang (Harbin Enginee	
09:20	R149	Study on Kinetic Characteristics of Krypton and Reactor System / Bo Zhou (Shanghai Ins. of Applied China)	
09:40	R150	Development and Engineering Verification of A PWR Lattice Calculation / Hongbo Zhang (Shang Research and Design Institute, China)	
10:00	R151	Deacy Data for Decay Heat and Anti-neutrino Paraskevi Dimitriou (International Atomic Energy A tria)	-
10:20		Break	
	Topic	Track: Nuclear Data Application	
	Session	n Title: Application in Nuclear Reactor 2	
	Chair:	Paraskevi Dimitriou	
10:40	R152	Fine Structure in Nuclear Reactors Antineutrino S	Spectra / Alejandro Son-
11:00	R153	zogni (Brookhaven National Laboratory, USA) Rational Function Representation of Point-wise Nu Applications to Doppler Broadening / Shichang L Power Uni.)	
11:20	R154	Radiological Assessments of the Chemical Plant of Reactor in the Frame of the SAMOFAR H2020 Pr (Irfu, CEA, Université Paris-Saclay, F-91 191 Gif-sur	oject / Anthony Marchix r-Yvette, France)
11:40	R155	Reaction Rate of Transmutation ¹²⁹ I, ²³⁷ Np, and Comparison with the Yalina-thermal Facility Exposure (The Joint Ins. for Power and Nuclear Research Academy of Sciences of Belarus)	eriments / Tamara Kor- n - Sosny of the National
12:00	R156	Optimization of neutron-energy group structure reactors in the SCALE code system / Lukasz Kos Nuclear Research, Poland)	
12:20	S 157	Neutronic Parameters and CPS (control and Pro- Calculation of Thermal Research Reactor Using Shamoradifar (Payam e noor university, Iran)	

Tue M	lay 21	14:00-17:50	Room 305
	_	Track: Nuclear Data Application	
		n Title: Application in Nuclear Reactor 3	
	Chair:	Tamara Korbut	
14:00	l158	A New Reference Database for Beta-delayed Neutron / Paraskevi Dimitriou (International Atomic Energy A	
		IAEA CRP, Austria)	<i>,</i>
14:30	R159	On-the-fly Temperature-dependent Cross Section Tre	atment Under Extreme
		Conditions in RMC Code / Lei Zheng (Department Tsinghua Uni., China)	of Engineering Physics,
14:50	R160	Evolution of the Importance of Neutron-induced Rea	ctions Along the Cycle
		of An LFR / Pablo Romojaro (CIEMAT, Spain)	
15:10	R161	Benchmarking the New ENDF/B-VIII.0 Nuclear Data	
		Medium 1000 MWth Sodium-cooled Fast Reactor / [Donny Hartanto (Uni. of
15:30	R162	Sharjah, UAE, United Arab Emirates) Measurement of Temperature-dependent Thermal	Noutron Sportrum in
10.00	K102	CaH2 Moderator Material for Space Reactor Using 7	-
		Lee (Ins. for Intergrated Radiation and Nuclear Science,	,
15:50		Break	,
	Topic	Track: Nuclear Data Application	
	Session	n Title: Application in Nuclear Reactor 4	
	Chair:	Ping Liu	
16:10	R163	Production and Verification of the Compressed Dep	_
1000	D 101	Neutronic Analysis / Yunfei Zhang (Harbin Engineering	- *
16:30	R164	Benchmarking the New ENDF/B-VIII.0 Nuclear Date Core of Indonesian Multinumpers Research Research	•
		Core of Indonesian Multipurpose Research Reactor (R tanto (Uni. of Sharjah, UAE, United Arab Emirates)	.3G-GA3) / Donny mar-
16:50	R165	Nuclear Data Sensitivity and Uncertainty Analyses on t	he First Core Criticality
		of the RSG Gas Multipurpose Research Reactor / Peng	
		Uni., Japan)	
17: 10	R166	On the Impact of Nuclear Data Uncertainties on LV	
		Assessments / Dimitri Rochman (Paul Scherrer Institut,	Switzerland) / Speaker:
15 00	D105	Erwin Alhassan	
17:30	R167	Nuclear Data Sensitivity Analysis and Uncertainty Pro Whole-core Transport Code / Qu Wu (Nuclear Power I	_

Wed	May 22	8:30-12:20	Room 202
	Topic	Track: Nuclear Theory, Model and Codes	
	Session	Title: Nuclear reaction theory models and	codes 5
	Chair:	Jutta Escher	
08:30	1171 Ph	otonuclear Data Library and Photon Strength Functions / P	. Dimitriou (IAEA)(I168 canceled)
0 9:00	R169	Theoretical Calculation and Evaluation of Neut Pu Isotopes / Hairui Guo (Ins. of Applied Physics ematics, Beijing, China)	
09:20	R170	Theoretical Calculation and Evaluation for n+23 actions / Yinlu Han (China Inst. of Atomic Energy	
09:40	R171	Photonuclear Data Library and Photon Strength I	Functions / Paraskevi Dim-
		itriou (IAEA) (Move to I171 at 8:30 above)	
10:00	R172	The Evaluations of Photonuclear Data in CND	C / Xi Tao (China Inst. of
10:20		Atomic Energy) Break	
10.20			
	_	Track: Nuclear Theory, Model and Codes	ander 6
		Title: Nuclear reaction theory models and	codes 6
		Roberto Capote	
10:40	l173	Surrogate Reactions: Doorways to Cross Section Jutta Escher (Lawrence Livermore National Labor	,
11:10	R174	Incorporating A Two-step Mechanism into Calcu Used to Populate Compound Nucleus Spin-par port of Surrogate Neutron Capture Measurement United Kingdom)	rity Distributions in Sup-
11:30	R175	Statistical Theory of Light Nucleus reactions involved / Xiaojun Sun (Guangxi Normal Uni., China)	
11:50	R176	Microscopic Optical Potentials for Li Isotopes School of China Academy of Engineering Physics)	/ Wendi Chen (Graduate
12:10	S177	Coupled-channel Analysis of Deuteron Scattering uate School of China Academy of Engineering Phy	, ,
12:15	S 178	Studies on Neutron-Neutron Elastic Scattering $\mathrm{Uni.},\mathrm{China})$	/ Qianghua Wu (Tsinghua

Wed	May 2	2 14:00-16:10 Room 202
	Topic	Track: Nuclear Theory, Model and Codes
	Session	Title: Nuclear reaction theory models and codes 7
	Chair:	Yukinobu Watanabe
14:00	R179	N+d Scattering Solved with Faddeev-AGS Equations Using the Wave Packet
		Method / Danyang Pang (Beihang Uni., China)
14:20	R180	QRPA Predictions of the E1 and M1 Gamma-ray Strength Functions Using
		the D1M Gogny Interaction / Stephane Hilaire (CEA, France)
14:40	R181	A Study of Giant Dipole Resonance Parameters from Photoabsorption Cross
		Sections / Yuan Tian (China Inst. of Atomic Energy)
15:00	R182	Structure of Continuum States and Strength Function in the Complex Scaling
		Method / Myagmarjav Odsuren (School of Engineering and Applied Sciences
		National Uni. of Mongolia, Mongolia)
15:20	S 183	The Refractive Scattering of ¹⁷ F+ ¹² C / Liyuan Hu (Harbin Engineering Uni.
		China)
15:25	S184	Simulation of Neutron Transmission Performance of Metal Spherical Shell Un-
		der Temperature Dependent Neutron Cross Section / $Yinghong\ Zuo\ (North-$
		west Institue of Nuclear Technology, China)
15:30	S185	Improvement of Generalized Evaporation Model Based on Analysis of Isotope
		Production in Proton- and Deuteron-induced Spallation Reactions $/$ Shunsuke
		Sato (Kyushu Uni., Japan)
15:50		Break

Workshop on Neutronics Experiment Facility HINEG and Simulation $\,$

16:10-18:00

Code SuperMC

Wed	May 22	8:30-12:00	Room 203
	Topic	Track: Evaluation	
	Session	a Title: Evaluated libraries	
	Chair:	Allan Carlson	
08:30) 186	Status of JENDL / Osamu Iwamoto (Japan Atomic Ener	gy Agency)
09:00	R187	Completeness of Neutron-, Photo-induced and Spontan	
00.00	. 5.400	Data / Boris Pritychenko (Brookhaven National Laborato	
09:20) R188	Systematic Description of Product Mass Yields of the 232 Th and $^{232-239}$ U Fissions / Wenjie Zhu (School of Ph	
		China) / Speaker: Tieshuan Fan	., 5165, 1 61111B 6 1111,
09:40	R189	Evaluation and Validation of Fe-56 Data after CENDL	-3.2b1 / Haicheng
		Wu (China Inst. of Atomic Energy)	
10:00	R190	Decay Heat Uncertainty Quantification with the GNIAC	C Code / Jimin Ma
10.00		(Ins. of Nuclear Physics and Chemistry, China)	
10:20		Break	
	-	Track: Evaluation	
		Title: Uncertainty quantification and covariances	1
		Boris Pritychenko	
10:40) R191	Depletion Uncertainty Analysis Performed to the Critic	
		Configuration / Alexey Stankovskiy (SCK-CEN, a Belgian Centre, Belgium)	ii Nuclear Research
11:00	R192	Evaluation of Neutron Reaction Cross-sections with Ta	king Unrecognized
		Experimental Errors Into Account / Sergei Badikov (Nat	
		clear Uni. "MEPhI", Russia)	
11:20	R193	Covariance Evaluation of the CENDL Library / Ruirui	Xu (China Inst. of
11 40	C104	Atomic Energy)	
11:40) S 194	Uncertainties of Calculated Coincidence-summing Cor Gamma-ray Spectrometry / Valentina Semkova (Ins. for	
		and Nuclear Energy, Bulgarian Academy of Sciences,	
		Speaker: Naohiko Otsuka	, —
11:45	5 S 195	Uncertainty Quantification by Polynomial Chaos Tech	hnique for Source
		Driven Subcritical Experimental Systems / Tamara I	,
		Ins. for Power and Nuclear Research - Sosny of the Na	tional Academy of
11 -	C100	Sciences of Belarus)	er c natwerr
11:50) S 196	Cyclotron Production Cross Sections of ⁶¹ Cu Radionucl X) ⁶¹ Cu Nuclear Reaction / Ahmed Rufai Usman (Umaru I	
		Nigeria)	viusa Taradua UIII.,
11:55	5 S 197	Measurement of ²⁴¹ Am (n,2n) Reaction Cross-section Inc	duced by 14.8 MeV
		Neutron / Feng Xie (Northwest Ins. of nuclear technology	

Wed	May 2	.2 14:00-18:00 Room	203
	Topic	Track: Evaluation	
	Session	on Title: Uncertainty quantification and covariances 2	
	Chair:	: Osamu Iwamoto	
14:00	I 198	Reduction of Uncertainty in General-purpose Libraries Using Tr	ansport Equa-
		tion Constraints / Jan Malec (JSI, Slovenia)	
14:30	R199	Researches on Uncertainty Quantification Due to Nuclear-data PWR and SFR / Chenghui Wan (Xi'an Jiaotong Uni., China)	Covariance for
14:50	R200	Covariance Generation for the Prompt Neutron Multiplicity o	
		U-235 Including the (n, γ f) Process in the R.R.R. / Esther Leal-	`
		oratory of Physical Studies, CEA/DEN Cadarache, F-13 108 Sain	t Paul Les Du-
15:10	D001	rance, France) / Speaker: Gilles Noguere	A J:
19:10	R201	Measurement of ²³⁵ U(n,f) Cross Section Below 150 keV / Sim (INFN - Laboratori Nazionali del Sud, Italy)	one Amaducci
15:30	S 202	Calculation of Electron Scattering Cross-section Using Differen	nt Theoretical
		Methods / Xiazhi Li (Northwest Ins. of Nuclear Technology, Xi'a	
15:35	S 203	Improved Model for Atomic Displacement Calculation / Sheng	li Chen (CEA,
		France)	
15:50		Break	
	_	Track: Evaluation	
		on Title: Cross section and decay standards	
	Chair:	: Jan Malec	
1 6:10	1204	Recent Work on Neutron Cross Section Standards / Allan C ${\rm USA})$	Carlson (NIST,
16:40	R205	Updating Covariances of Experiments in the Neutron Da	ta Standards
		Database / Denise Neudecker (LANL, USA) / Speaker: LA-TBD	
17:00	R2 06	Modified Single Particle Estimate Approach for Estimation of	Nuclear Res-
		onance Fluorescence Cross-section $/$ Kwangho Ju (KAIST (Ko	orea Advanced
•		Ins. of Science and Technology))	
17:20	R207	Precise Measurement of the Neutron Capture Cross Section	
		Thermal and Sub-thermal Energies / Anton Wallner (Departm	ent of Nuclear
17:40	R208	Physics, Australian National Uni., Canberra, Australia) Relativistic Effect on Atomic Displacement Damage / Shengl	i Chen (CFA
17.40	11/200	France)	i Olieli (OEA,

Wed	May 22	2 8:30-12:40 Roo	m 205
	Topic	Track: Nuclear Data Processing and Validation	
	Session	n Title: Nuclear data adjustment 2	
	Chair:	Andrej Trkov	
0 8:30		Integral Adjustment of Nuclear Data Libraries - Finding Unretematic Uncertainties and Correlations / Henrik Sjostrand (Died Nuclear Physics, Department of Physics and Astronomy, Uppsala, Sweden)	Division of Ap- Uppsala Uni.,
0 9:00	R210	In Search of the Best Nuclear Data File for Proton Induce Varying Both Models and Their Parameters / Erwin Alhassa for Reactor Physics and Thermal-Hydraulics, Paul Scherrer I Villigen, Switzerland)	n (Laboratory
09:20	R211	Data Assimilation with Post Irradiation Examination Experim Siefman (Swiss Federal Ins. of Technology in Lausanne, Switzer	,
0 9:40	R212	Analysis of the Prior Nuclear Data Correlation and Its Effective justment in Bayesian Inference / Dinesh Kumar (Uppsala Unit	
10:00	R213	Learning from Google: About A Computational EXFOR Data cient Data Retrieval and Analysis / Georg Schnabel (Uppsala	
10:20	1	Break	,
	Topic	Track: Nuclear Data Processing and Validation	
	Session	n Title: Nuclear data validation 1	
	Chair:	Tim Ware	
10:40	1214	Improved Evaluations of Neutron Induced Reactions on 57 Fe gets / Andrej Trkov (IAEA, Austria)	and ⁵⁶ Fe Tar-
1 1:10	l215	Fusion Decay-heat Benchmark for Nuclear Data Validation: terrogation Capabilities with FISPACT-II / Mark Gilbert (Un Atomic Energy Authority)	
1 1:40	R216	Two Absolute Integral Measurements of the 197 Au(n, γ g) section and Solution of the Historic Discrepancies. / Javier P Granada (Spain))	
12:00	R217	Nuclear Data Verification and Validation Platform for JEFF-4 (Nuclear Energy Agency, France)	/ Luca Fiorito
12:20	R218	New Features and Improvements in the NEA Nuclear Data Michael Fleming (OECD Nuclear Energy Agency, France)	Tool Suite /

Wed	May 2	2 14:00-18:00	Room 205
	Topic	Track: Nuclear Data Processing and Validation	
	Session	n Title: Nuclear data validation 2	
	Chair:	Bret Beck	
14:00	l 219	Benchmark Testing of CENDL-3.2B1 / Haicheng Wu	(China Inst. of Atomic
		Energy)	
14:30	R220	Effects of Different Nuclear Evaluation Data on the RN	IC K-eff Calculation /
14 50	D 001	Wenxin Zhang (Nuclear Power Ins. of China)	
14:5 0	R221	Analyses of Natural Radioactivity Concentrations in Secretary Description Description of PANTEN and W	
		Effective Doses in Several Districts of BANTEN and V Makhsun Makhsun (National Nuclear Energy Agency of D	,
1 5:10	R222	Validation of Tritium Production Cross-section of Litl	· · · · · · · · · · · · · · · · · · ·
20,10		HCPB Mock-up Experiment / Bin Li (Ins. of Nuclear End	
		Chinese Academy of Sciences, China)	30 0
15:30	R223	Benchmarking ENDF/B-VIII.0 Using the LANL Expan	
		tion Suite for MCNP / Ramon Arcilla (Brookhaven Nati	onal Laboratory, USA)
15:50		Break	
	Topic	Track: Nuclear Data Processing and Validation	
	Session	n Title: Nuclear data validation 3	
	Chair:	Mark Gilbert	
16:10	1224	Validation of JEFF-3.3 and ENDF/B-VIII.0 Nuclear I	Data Libraries in AN-
		SWERS Codes / Tim Ware (Wood, United Kingdom)	
16:40	1225	Advance: the ENDF Quality Assurance System / David	`
1= 10	D oo <i>a</i>	clear Data Center/Brookhaven National Laboratory, USA	*
17: 10	R226	Testing of the Thorium-uranium Fuel Cycle Special N	•
17:30	R227	CENDL-TMSR 1.0 / Xiaohe Wang (Shanghai Ins. of Ap Validation of A New URR Implementation in GNDS	- ,
17.50	11221	Descalle (Lawrence Livermore National Laboratory, USA	,
17:50	S228	Ratio of Spectral Averaged Cross Sections Measured in	,
		U(n _{th} ,f) Neutron Fields / Martin Schulc (Research Centr	` ,
		/ Speaker: R. Capote	,
17:55	S229	Introduction of A Systematic Integral Testing Tool EN	DITS / Huanyu Zhang
		(China Inst. of Atomic Energy)	

Wed	May 22	8:30-12:30	Room 301
	Topic	Track: Nuclear Reaction Measurements	
	Session	Title: Nuclear reaction measurements 5	
	Chair:	Maelle Kerveno	
08:30	1230	Measurement of (n,f) and (n,2n) Cross Sections Surrogate Capture-reaction Method / Chengjian Lin Energy)	
0 9:00	R231	Measurements of Cross Sections for High Energy actions on Co and Bi $/$ Peane Peter Maleka (NRF Africa)	-iThemba LABS, South
09:20	R232	High Precision Measurements of the 93 Nb(n,2n) 92 Section / Jianqi Chen (China Inst. of Atomic Energy Luan	
0 9:40	R233	Measurements of Differential and Angle-integrated 10 B(n, α) 7 Li Reaction in the Neutron Energy Rang MeV / Haoyu Jiang (State Key Laboratory of Nuclear School of Physics, Peking Uni., Beijing , China)	ge of 1 eV $<$ En $<$ 2.5
10:00 10:20		Angular Differential and Angle-integrated Cross Sethe ⁶ Li(n,t) ⁴ He Reaction from 1 eV to 3 MeV at (State Key Laboratory of Nuclear Physics and Technic Peking Uni., Beijing, China) Break	CSNS / Huaiyong Bai
	Topic	Track: Nuclear Reaction Measurements	
	Session	Title: Nuclear reaction measurements 6	
	Chair:	Chengjian Lin	
10:40	1235	An Overview of Experimental Nuclear Science at White (LANL, USA) / Speaker: Matt Devlin	Los Alamos / Morgan
11:10	R236	What Can We Learn from (n,xn γ) Cross Sections anism and Nuclear Structure ? / Maelle Kerveno (C	
1 1:30	R237	Measurement of (n, γ) Cross-section on ¹⁸⁶ W Isotop Energies / Mayur Mehta (Ins. for PLASMA RESEA)	
11:50	R238	Thermal Neutron Capture Cross-sections Measure and Mo-98 / Ngoc Son Pham (Nuclear Research Ins	
12: 10	R239	Measurement of the ²⁴⁴ Cm and ²⁴⁶ Cm Neutron-Sections at the n_TOF Facility / Victor Alcayne (CI tigaciones Energeticas, Medioambientales y Tecnological Control of the ²⁴⁴ Cm and ²⁴⁶ Cm Neutron-Sections at the n_TOF Facility / Victor Alcayne (CI tigaciones Energeticas, Medioambientales y Tecnological Control of the ²⁴⁴ Cm and ²⁴⁶ Cm Neutron-Sections at the n_TOF Facility / Victor Alcayne (CI tigaciones Energeticas, Medioambientales y Tecnological Control of the ²⁴⁴ Cm and ²⁴⁶ Cm Neutron-Sections at the n_TOF Facility / Victor Alcayne (CI tigaciones Energeticas, Medioambientales y Tecnological Control of the ²⁴⁴ Cm and ²⁴⁶ Cm Neutron-Sections at the n_TOF Facility / Victor Alcayne (CI tigaciones Energeticas, Medioambientales y Tecnological Control of the ²⁴⁴ Cm and ²⁴⁶ Cm and ²⁴⁶ Cm Neutron-Sections at the n_TOF Facility / Victor Alcayne (CI tigaciones Energeticas, Medioambientales y Tecnological Control of the ²⁴⁴ Cm and ²⁴⁶	induced Capture Cross EMAT(Centro de Inves-

Wed	May 2	2 14:00-18:10 Room	m 301
	Topic	Track: Nuclear Reaction Measurements	
	Session	on Title: Nuclear reaction measurements 7	
	Chair:	: Guohui Zhang	
14:00	1240	Neutron Transmission Measurements at nELBE / Arnd F	dudolf Junghans
		(Helmholtz-Zentrum Dresden-Rossendorf, Germany)	
14:30	R 241	New Experimental Data for 12 C(n, α) 9 Be Reaction. / Tatis	ana Khromyleva
14:50	R242	(IPPE, Russia) Photoneutron Reaction Cross Sections for ⁷⁵ As and ¹⁸¹ Ta: Sy	stematic Uncer-
14.00	11242	tainties and Data Reliability / Vladimir Varlamov	stematic Oncer-
15:10	R243	Photonuclear reaction study in CIAE / Chuangye He (China	Inst. of Atomic
		Energy, Beijing, China)	
15:30	R244	MCNP Modeling for Neutron-induced Charged Particle Cro	ss-section Mea-
15.50		surements at LANSCE / Lukas Zavorka (LANL, USA)	
15:50		Break	
	_		
		on Title: Nuclear reaction measurements 8	
		: Arnd Rudolf Junghans	
1 6:10	1245	Measurements of Neutron-induced Charged-particle Emissi	on Reactions /
10.40	D 0.46	Guohui Zhang (School of Physics, Peking Uni., Beijing, China)	- 12 c ()l
16:40	R246	Measurement of the Energy-differential Cross Section of the 12 C(n,d) Reactions at the n_TOF Facility at CERN / Mas	` ' '
		(CERN, Switzerland)	anno Darbagano
17:00	R247	Monte Carlo Simulations and n-p Differential Scattering Data	Measured with
		Recoil Proton Telescopes / Nicholas Terranova (INFN, CNAF,	Bologna, Italy)
17:20	R248	Measurement of Production Cross Sections of 22 Na and 24 N	
		duced Reactions on Aluminum / Sung-chul Yang (Korea Ato	omic Energy Re-
17:40	R249	search Institute) Cross-section Measurement in the Reactions of ¹³⁶ Xe on Pr	oton Doutonon
17:40	K249	and Carbon / Xiaohui Sun (RIKEN Nishina Center, Japan)	oton, Deuteron
18:00	S 250	, , , , , , , , , , , , , , , , , , , ,	tion of 30 MeV
		Energy Protons with Cooper / Timur Zholdybayev (Ins. of	
		Kazakhstan) / Speaker: Naohiko Otsuka	
18:05	S 251	Simulations of the Measurements of Differential Cross Sect	-
		and n-d Elastic Scattering Reactions at CSNS Back-n White	Neutron Source
		/ Zengqi Cui (School of Physics, Peking Uni., China)	

Wed	May 22	8:30-12:30	Room 302	
	Topic	Track: Fission Physics and Observables		
	Session	Title: Fission theory and experimental 5		
	Chair:	Jack Silano		
08:30	1252	Calculation of the Fission Observables in the Res		
		Region of the ²³⁵ U(n,f) Reaction / Olivier Serot (F	rench Alternative Energies	
0 9:00	R253	and Atomic Energy Commission (CEA), France) Microscopic Studies of Fission Observables of Co	managed Negla: / Junahan	
0 9:00) K293	Pei (School of Physics, Peking Uni., China)	mpound Nuclei / Junchen	
09:20	R254	Monte-carlo Evaluation on Fission Process for N	Neutron-induced Actinide	
		Nuclei Fission / Zheng Wei (Lanzhou Uni., China)		
09:40	R255	Advances in Modeling and Simulation of Fast No.	eutron Induced Fission of	
10.00	Dora	²³² Th / Cristiana Oprea (JINR, Russia)		
10:00	R256	The Scission Microscopic Structure of Fission in A (Liaoning normal university, China)	ictinide Nuclei / Xin Guan	
10:20)	Break		
	_	Track: Fission Physics and Observables n Title: Fission theory and experimental 6		
		Olivier Serot		
10:40		Validating the Bohr Hypothesis: Comparing Fis	sion product Violds from	
10.40	1201	Photon-induced Fission of ²⁴⁰ Pu and Neutron-induced Fission of ²³⁹ Pu /		
		Jack Silano (Lawrence Livermore National Laborat	,	
1 1:10	1258	Fission Studies Using Steff at n_TOF, CERN $/$ N	ikolay Sosnin (The Uni. of	
		Manchester, United Kingdom)		
11:40	R259	Improved Neutron Multiplicity Correlations with		
		and Energy from ²³⁹ Pu(n,f) / Alf Göök (Europea	n Commission - Joint Re-	
12:00	R260	search Centre, Belgium) The Spatial Parity Non Conservation Effects in	the Fission Induced by	
12.00) K200	Thermal and Resonant Neutrons on ²³³ U / Cristi		
12:20	S261	Shape Description in Macro-microscopic Model /	-	
		Laboratory of Nuclear Physics and Technology, Pel	0 0 0	
		China)		
12:25	S \$262	Energy Dependence of Time Parameters of Dela	=	
		sion of U-233 by Neutrons in Energy Range from	14 to 18 MeV / Dmitrii	
		Gremiachkin (JSC "SSC RF-IPPE", Russia)		

Wed	May 2	2 14:00-17:50	Room 302
	Topic	Track: Fission Physics and Observables	
	Sessio	n Title: Prompt fission neutron spectrum	
	Chair:	Veatriki Michalopoulou	
14:00	1263	Prompt Fission Neutron Spectra for Neutron-in $^{235} \mbox{U}$ / M. Devlin (LANL, Los Alamos, NM , USA)	
14:30	R264	Prompt Fission Neutron Spectra of ²³⁵ U(n,F) ar Maslov (Joint Ins. of Nuclear and Energy Research	
14:50	R265	larus) Observations of Poorly-known Features of the ²³⁹ Neutron Spectra / Keegan J. Kelly (LANL, USA)	Pu and ²³⁵ U Prompt Fission
1 5:10	R266	Finished in the morning is Between ig the Seq	Different Quantities Char- uential Emission of Prompt
15:30	R267	Neutrons / Anabella Tudora (Uni. of Bucharest, Fa Angular Distributions and Anysotropy of Fission induced Fission of ²³⁹ Pu, ²³⁷ Np, and ^{nat} Pb in	Fragments from Neutron-
		1- 200 Mev / Alexey Gagarskiy (B.P. Konstantino	v Petersburg Nuclear Physics
		Ins. of National Research Center "Kurchatov Inst	citute", Gatchina, Leningrad
15:50		region, Russia) Break	
13.30			
	_	Track: Fission Physics and Observables n Title: Fission cross section	
		M. Devlin	
16:10		First Results of the ²³⁰ Th(n,f) Cross Section M	leasurements at the CERN
		n_TOF Facility / Veatriki Michalopoulou (Europe Reasearch (CERN), Switzerland)	
16:40	R269	First Results of the ²⁴¹ Am(n,f) Cross-section M mental Area 2 of the n_TOF Facility at CERN / of Physics, Uni. of Ioannina, Greece)	
17:00	R270	Study of the Neutron Induced Fission Cross-se n_TOF Facility Over A Wide Energy Range / Atlational Technical Uni. of Athens, Greece)	
17:20	R271	Measurement of the ²³⁴ U(n,f) Cross Section in 14.8 and 19.2 MeV Using Micromegas Detectors tional Technical Uni. of Athens, Greece) / Speaker:	s / Sotiris Chasapoglou (Na-
17:40	S 272	Experiments on Nubar(A) in ²³⁵ U(n _{th} ,f) Using Al-adili (Department of Physics and Astronomy, Up	the Double-E Method / Ali
17:45	S273	Experimental Estimation of the "scission" Neutro tron Induced Fission of ²³³ U and ²³⁵ U / Aleksandr Physics Ins. named B.P. Konstantinov of National Institute", Russia)	Vorobev (Petersburg Nuclear

Wed	May 22	8:30-12:30	Room 303
	_	Track: Experimental Facilities, Equipment	_
		a Title: Experimental facilities, equipment	techniques and methods 5
		Frank Gunsing	
08:30) 274	Measuring Independent Fission Product Yields Reactions with the FissionTPC / Nicholas Walstional Laboratory, USA)	
0 9:00	R275	Utilizing Nuclear Data in Delayed Gamma-ray S Carlo Analysis / Douglas Chase Rodriguez (Japa	
09:20	R276	Neutron Spectrum Determination of P+be Re Using the Multi-foil Activation Technique / Mil Ins. of the Czech Academy of Science, p.r.i, Rez public)	an Stefanik (Nuclear Physics
09:40	R277	Charged Particle Activation Measurements in GANIL/SPIRAL2-NFS / Jaromir Mrazek (NPI	
10:00	R278	Source Preparation Techniques in Nuclear Dec Alpha Emitting Radionuclides by Using DSA Atomic Energy Authority- Department of Radiato	/ Abdullah Dirican (Turkish
10:20		gies, Turkey) Break	
		Track: Experimental Facilities, Equipment Title: Experimental facilities, equipment	
	Chair:	Nicholas Walsh	
10:40	R279	Micromegas-based Detectors for Time-of-flight induced Reactions / Frank Gunsing (CEA Sacla	
11:00	R280	Targetry of Rare Isotopes at PSI / $Emilio\ And\ Institut,\ Switzerland)$	drea Maugeri (Paul Scherrer
11:20	R281	Neutron-gamma Classification with Support Vecsor Decomposition / Hanane Arahmane (ESMA) ences Mohammed V Uni., Morocco)	
11:40	R282	Development and Characterization of PPACs Tarrio (Department of Physics and Astronomy, U	•
12:00	R283	The Light Charged Particle Detector Array at the Source / Rui Fan (Ins. of High Energy Physics, 6)	
12:20	S284	Evaluation of Gamma-ray Strength Function B ray Pulse-height Spectra in Time-of-flight Neut Nobuyuki Iwamoto (Japan Atomic Energy Agend	tron Capture Experiments /
12:25	5 S 285	A New 3 MV Tandem Accelerator Facilities of Nuclear Reaction Cross Section Measurements Nuclear Science and Technology Atomic Energy R Dhaka Bangladesh)	s / Md. Shuza Uddin (Ins. of

Wed	May 22	2 14:00-18:00 Ro	om 303	
	Session	Track: Experimental Facilities, Equipment Techniques on Title: Experimental facilities, equipment techniques of Nathanial Davidars		
1400		Nathaniel Bowden		
14:00	R286	Application of Similarity Analysis Method in Zero-power & dation / Tong Ning (China Inst. of Atomic Energy)	experimental Vali-	
14:20	R287	A New Neutron Induced γ -ray Generator for Geant4 / Embranos (CIEMAT, Madrid, Spain) / Speaker: Daniel Cano-O	A New Neutron Induced γ -ray Generator for Geant4 / Emilio Mendoza Cembranos (CIEMAT, Madrid, Spain) / Speaker: Daniel Cano-Ott	
14:40	R288	The ⁶ LiF-silicon Detector Array Developed for Real-time Neat Back-streaming White Neutron Beam at CSNS / Qian Energy Physics , China)	eutron Monitoring	
15:00	R289	New Detection Systems at U-120M Cyclotron / Jan Nova Ins. ASCR, Czech Republic)	k (Nuclear Physics	
15:20	R290	Collimator Design of A Recoil Proton Telescope / Feipeng clear Energy Safety Technology, Chinese Academy of Sciences	<u> </u>	
15:40	S2 91	The Silicon-detector Array at Back-n White Neutron Fa (Ins. of High Energy Physics, China)		
15:45	S 292	Back-streaming White Neutron Beam for Neutron Imaging at CSNS / Keqing Gao (Neutron Science Center, DongGuan, China)		
15:50		Break		
	Topic	Track: Spallation, High and Intermediate Energy Rea	actions	
	Session	n Title: Spallation, high and intermediate energy reac	tions 1	
	Chair:	Hiroki Iwamoto		
16:10	1293	Recent Progress in Nuclear Data Measurement for ADS a Chen (Ins. of Modern Physics, Chinese Academy of Sciences,	, – –	
16:40	R294	Measurement of Displacement Cross Section in J-PARC Energy Range from 0.4 GeV to 3 GeV / Shin-ichiro Meig Atomic Energy Agency)	for Proton in the	
17:00	R295	Nuclear Charge-changing Cross Section and Interaction Consuments on C/H Target at Intermediate and High Energy (Beihang Uni., China)		
17:20	R296	Spallation Reaction Study for Long-lived Fission Products / He Wang (RIKEN Nishina Center, Japan)	in Nuclear Waste	
17:40	R297	Measurement of Nuclide Production Cross Section for L with Proton in Energy Range from 0.4 GeV to 3.0 GeV (J-PARC/JAEA, Japan)		

Wed	May 22	8:30-12:30	Room 305
	_	Track: Nuclear Data Application	
	Session	n Title: Application in Nuclear Reactor 5	
	Chair:	Jaehong Lee	
08:30	1298	Study of Th-U Fuel Cycle and Nuclear Data for TM (Shanghai Ins. of Applied Physics (SINAP), CAS, China)	, –
0 9:00	R299	Impacts of Nuclear Data Uncertainties on the Gene Soluble-boron-free SMR ATOM Core / Xuan Ha Nguye Ins. of Science and Technology (KAIST))	=
09:2 0	R300	Analysis of the Perturbation Experiments for Some Semplication on the Designs of the Space Nuclear Reacter (Ins. of Nuclear Physics and Chemistry, China Acade Physics)	or / Sanbing Wang
0 9:40	R301	Impact Analysis of Model and Data Library for Iter N Based on SuperMC / Pengcheng Long (Ins. of Nuclear I nology, Chinese Academy of Sciences, China)	
10:00	S302	The influence and analysis of background cross section of PWR fuel pin / Xiang Xiao (School of Nuclear science North China Electric Power Uni., Beijing, China)	
10:05	S S 303	Source-term and Radiological Safety Analysis of TRIGA of Bangladesh / Mohammad Mizanur Rahman (Banglad Commission)	
10: 10	S 304	Uncertainty Quantification and Sensitivity Studies on Tactors / Eliot Party (Institut Pluridisciplinaire Hubert Cu Strasbourg, France) / Speaker: Maelle Kerveno	
10:15 10:20		Research and Development of China Nuclear Safety Clouform NCloud / Pengcheng Long (Ins. of Nuclear Energy Chinese Academy of Sciences, China) Break	•
10.20			
		Track: Nuclear Data Application	err 1
		n Title: Nuclear data for astrophysics and cosmolog Anton Wallner	3y 1
10.40			for Astrophysics /
10:40) 1 306	Extensive New Beta-delayed Neutron Measurements Jose Luis Tain (Instituto de Fisica Corpuscular, Spain)	for Astrophysics /
1 1:10	R307	The Cosmic Ray Detector (MCORD) for the New Colli Bielewicz (National Center for Nuclear Research, Otwock-	,
11:30	R308	New Reaction Rates for the Destruction of ⁷ Be Dur cleosynthesis Measured at CERN/n_TOF and Their In Cosmological Lithium Problem / Alberto Mengoni (ENE	ing Big Bang Nu- mplications on the
11:50	R309	Determine the Neutron Capture Cross Section of Radirogate Ratio Method / Shengquan Yan (China Inst. of A	Atomic Energy)
12: 10	R310	The ¹⁵⁴ Gd Neutron Capture Cross Section Measured at and Its Astrophysical Implications / Mario Mastromarco di Fisica Nucleare (INFN), Italy)	

Wed	May 22	14:00-16:55	Room 305	
	Topic	Track: Nuclear Data Application		
	Session Title: Nuclear data for astrophysics and cosmology 2			
	Chair:	Michael Smith		
14:00) 311	Impact of Fission Fragment Distribution on		
		in Neutron Star Mergers and Supernovae /	Toshitaka Kajino (Beihang	
1400	D010	Uni./NAOJ/Uni. of Tokyo, China)	C :: D : IC I I	
14:30	0 R312	Systematic Deviations of Neutron-capture Cross pendent Accelerator Mass Spectrometry Measur		
		Australian National Uni.)	ements / Anton Wanner (The	
14:50	R313	Impact of Nuclear Data on Stellar Nucleosynth	nesis and Cosmology / Boris	
		Pritychenko (Brookhaven National Laboratory, US	•	
15:10	R314	Uncertainty Study in Analyzing the Reactor Neutrino Anomaly Based on the		
		Nuclear Structure Physics / Xiaobao Wang (Huzh	, ,	
15:30) R315	Study of Astrophysical Nuclear Reactions in a Laser-driven Plasma Environ-		
		ment / Xiaofeng Xi (Department of Nuclear Physics, China Inst. of Atomic Energy, Beijing, China)		
15:50)	Break		
		Track: Nuclear Data Application		
	-	n Title: Nuclear data for astrophysics and co	smology 3	
		Toshitaka Kajino		
16:10		Gamma-ray Strength Functions for Astrophysica	al Applications in the IAEA-	
		CRP / Hiroaki Utsunomiya (Konan Uni., Japan)		
16:30	R317	The Unknown Site of Actinide Nucleosynthesis	- Clues from Extraterrestrial	
		Pu-244 in Deep-sea Archives / Anton Wallner (T	, , , , , , , , , , , , , , , , , , ,	
16:50) S 318	Direct Capture Cross Sections on Exotic Tin Isot	copes* / Shisheng Zhang (Bei-	
		hang Uni., China) / Speaker: Michael Smith		

 ${\bf 17:00\text{-}18:30} \qquad \text{WPEC-Subgroup 45 VaNDaL}$

Thu M	lay 23	8:30-12:30	Room 202		
	_	Track: Nuclear Structure and Decay Data			
		Session Title: Nuclear masses and decay data measurements			
		Young-sik Cho			
08:30	l319	Atomic Mass Evaluation / Meng Wang (IMP, CA	,		
0 9:00	R320	Structure of Beta Decay Strength Function, Spin-isospin SU(4) Symmetry, and SU(4) Region / Igor Izosimov (Joint Ins. for Nuclear Research (JINR), Russia)			
09:20	R321	Alpha-decay Studies on the New Neutron-deficient Zhang (Ins. of Modern Physics, Chinese Academy	, ,		
0 9:40	R322	First Results from Novel Measurement Methods of Nuclear Properties with the FRS Ion Catcher / Israel Mardor (Soreq Nuclear Research Center, Israel) / Speaker: Samuel Ayet San Andres			
10:00 10:20	R323	Spectroscopy of ¹⁶ B from the Quasi-free (p,pn) Reaction / Zaihong Yang (Osaka Uni., Japan) Break			
	Topic	Track: Nuclear Structure and Decay Data			
	_	Title: Beta-delayed neutron			
	Chair:	Meng Wang			
10:40	1324	Canceled ts of Beta-delayed Neutron a			
11:10	R325	Strong One-neutron Emission from Two-neutron Decays of Neutron-rich Ga Isotopes / $Rin\ Yoko\ USA)$			
11:30	R326	Beta-neutron-gamma Spectroscopy of Beta-de Around Doubly-magic 78 Ni / Krzysztof Rykaczew	_		
11:50	R327	A New Measurement System for Study of N Xuesong Li (Northwest Ins. of nuclear technology,	- ,		
12:10	R328	New Results from the Modular Total Absorption Karny (Uni. of Warsaw, Poland)	on Spectrometer / Marek		

Thu N	/lay 23	14:00-18:05	Room 202
	Topic	Track: Nuclear Structure and Decay Data	
	Session	n Title: Beta-decay	
	Chair:	Krzysztof Rykaczewski	
14:00	1329	Improving reactor antineutrino spectra and decay	heat calculations with Total
		Absorption Gamma-ray Spectroscopy $/$ ${\sf Alejandro}$	Algora (The Valecia-Nantes
		TAGS collaboration) / Speaker: Jose Luis Tain	
14:30	R330	How Accurate Are the Half-lives of Long-lived Isot	opes? / Dorothea Schumann
14 50	D 001	(Paul Scherrer Institute, Switzerland)	
14:50	R331	Nuclear Mass Table in Deformed Relativistic Con	tinuum Hartree-Bogoliubov
1 5:10	R332	Theory / Eunjin In (Sungkyunkwan Uni., Korea) Recent Nuclear Shell Model Study and Its Possi	ble Pole in Nuclear Data /
13.10	NJJ2	Cenxi Yuan (Sun Yat-sen Uni., China)	bie Roie iii Nucleai Data /
15:30	R333	Analysis of the Reactor Antineutrino Spectrum A	nomaly with Fuel Burnup /
		Le Yang (North China Electric Power Uni.)	, ,
15:50		Break	
	Topic	Track: Nuclear Structure and Decay Data	
		n Title: Decay data measurements and Nuclear	structure theory mod-
	els and	l codes	
	Chair:	Jose Luis Tain	
16:10	I 334	Decay Heat and Anti-neutrino Energy Spectra in I	Fission Products / Krzysztof
		Rykaczewski (ORNL, USA)	
16:40	R335	Precise αK and αT Internal Conversion Coeffici	
		of Internal Conversion Theory: the Case of 39.7	• •
		¹⁰³ mRh / N. Nica (Cyclotron Institute, Texas A&M , USA)	om., Conege Station, Texas
17:00	R336	Experimental Study of β Spectra Using Si D	Detector / Abhilasha Singh
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(CEA, LIST, Laboratoire National Henri Becquerel	,
		Gif/Yvette cedex, France)	,,,
17:20	R337	Towards the First Experimental Determination of	of the 93 Mo Half-life / lvan
		Kajan (Paul Scherrer Institute, Switzerland)	
17:40	R338	Study of Finite Nuclei Within A Dirac-Brueckner	,
		Sun (China Nuclear Data Center, China Inst. of Ate	=- /
18:00	S 339	Measurements of Gamma-ray Intensities from to	
		Reaction ¹⁸⁶ W(n, γ) ¹⁸⁷ W / Cheolmin Ham (Department of the Cheolmin Ham) (Department of	artment of Energy Science,
		Sungkyunkwan Uni., Suwon , Korea)	

Thu M	lay 23	8:30-12:20	Room 203
	Topic	Track: Evaluation	
	Session	Title: Thermal scattering data 1	
	Chair:	Jose Ignacio Marquez Damian	
08:30	I 340	Thermal Scattering for Neutron Moderator Mate Scattering Experiments with Density Functiona Liu (Rensselaer Polytechnic Institute, USA)	
09:00	R341	Temperature Dependent Measurement of The Scattering in Heavy Water / Gang Li (Canada Canada)	
09:20	R342	On the Evaluation of the Thermal Neutron Sc Uranium Mono-nitride / Iyad Al-qasir (Departm clear Engineering, Uni. of Sharjah, Sharjah , UAE	ent of Mechanical and Nu-
09:40	R343	Generation and Validation of Thermal Neutron S Heavy Water Using Molecular Dynamics Simula Atomic Energy Research Institute)	tions / Haelee Hyun (Korea
10:00	R344	High-resolution Time-of-flight Measurements for lation Neutron Source (SNS), Oak Ridge Nation (Institut de Radioprotection et de Surete Nucleain	onal Laboratory / Luiz Leal
10:20		Break	
	-	Track: Evaluation	
		Title: Thermal scattering data 2	
	Chair:		
10:40	I 345	Experimental Validation of the Temperature E VIII.0 Thermal Scattering Kernel for Light Wa Damian (Centro Atomico Bariloche - Comision Na Argentina)	ter / Jose Ignacio Marquez
11:10	R346	Thermal Neutron Scattering Data for Liquid N Wang (Ins. of Applied Physics and Computationa	,
11:30	R347	Analysis of the Time-of-flight Scattering Cross Ster Measured at the SEQUOIA Spectrometer, (SNS) / Vaibhav Jaiswal (Uni. of Lille, France)	Spallation Neutron Source
11:50	R348	Measurement of the Double-differential Neutron From Room Temperature to Hot Full Power C (CEA, DEN Cadarache, F-Saint Paul Les Duranc	Conditions / Gilles Noguere
12:10	S 349	Effect of FLiBe Thermal Neutron Scattering on Reactor / Yafen Liu (Shanghai Ins. of Apllied Ph	ysics, China)
12:15	S 350	Processing and Application of Nuclear Data for ity Assessment / Tim Ware (Wood, United Kinge	-

Thu M	lay 23	14:00-18:15	Room 203	
	_	Track: Evaluation Title: Thermal scattering data 3		
		Jia Wang		
14:00		Validated Scattering Kernels for Triphenylmet	hane at Cryogenic Temper-	
		atures / Florencia Cantargi (Neutron Physics : Bariloche- Comisión Nacional de Energía Atómica	Department- Centro Atómico	
14:20	R352	Measurement of the Scattering Laws of Irradia	•	
		Inelastic Neutron Scattering Techniques / Iyad Al-qasir (Department of Mechanical and Nuclear Engineering, Uni. of Sharjah, Sharjah, UAE, United Arab Emirates)		
14:40	S 353	Development and verification of the thermal sc	attering law processing mod-	
		ule in nuclear data processing code NECP-Atlas	, 01 0 0	
15.50		Nuclear Science and Technology, Xian Jiaotong U	ni., Xian, Shaanxi, China)	
15:50		Break		
	_	Track: Nuclear Data Application		
	Session Title: Nuclear data for medical applications			
		Ulrich Fischer		
16: 10	I 354	Update of the IAEA Reference Cross Sections Reactions / Roberto Capote Noy (IAEA)	for Charged-particle Monitor	
16:40	1355	Radioisotope Production at the IFMIF-DONES I	Facility / Javier Praena ($\mathrm{Uni.\ of}$	
15 10	Dara	Granada (Spain))	6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
17:10	R356	Investigation of Novel Routes for Production of 61 Cu, 64 Cu and 67 Cu / Md. Shuza Uddin (Ins. of N		
		Atomic Energy Research Establishment, Savar, D.		
17:30	R357	A New Evaluation of the Nuclear Decay Data of		
		Hulubei National Ins. for Research and Develop	ment in Physics and Nuclear	
		Engineering (IFIN-HH), Romania)		
17:50	R358	A Feasibility Study on the ⁹⁹ Tc Production wi		
10.10	6250	Gamma-rays / Kwangho Ju (Korea Advanced Ins	G0 /	
18:10	S 359	Primary Proton Beam / Mogakolodi Adolf Mod	tetshwane (Botswana Interna-	
		tional Uni. of Science and Technology (BIUST), S	outn Africa)	

Thu M	lay 23	8:30-12:35 Room 205		
	Topic	Track: Nuclear Data Application		
	Session	Title: Nuclear data in accelerator related applications 1		
	Chair:	Tadahiro Kin		
08:30	I 360	The High-energy Intra-nuclear Cascade Liège-based Residual (HEIR) Nu-		
		clear Data Library / Michael Fleming (OECD Nuclear Energy Agency, France)		
0 9:00	R361	Study of the Li(d,xn) Reaction for the Development of Accelerator-based		
00.00	Dago	Neutron Sources / Yukinobu Watanabe (Kyushu Uni., Japan)		
09:20	R362	Generation of Collimated Neutron Beam Using High Intensity Laser Pulses / Tao Ye (Ins. of Applied Physics and Computational Mathematics, China)		
09:40	R363	Neutron Production in the Li-7(p,n) Reaction in the Energy Range 17-34		
00.10	11000	Mev / Mitja Majerle (Nuclear Physics Ins. CAS, Czech Republic)		
10:00	R 364	Isotope-production Cross Sections of Residual Nuclei in Proton- and		
		Deuteron-induced Reactions on 93 Zr at 50 MeV/u / Keita Nakano (Kyushu		
		Uni., Japan)		
10:20		Break		
	_	Track: Nuclear Data Application		
		ession Title: Nuclear data in accelerator related applications 2		
	Chair:	Michael Fleming		
10:40	1365	Production Method of Environmental Tracer Cs-132 by Accelerator-based		
		Neutron / Tadahiro Kin (Department of Advanced Energy Engineering Sci-		
11:10	R366	ence, Kyushu Uni., Japan) Excitation Functions of ³ He- Induced Nuclear Reactions on Natural Copper		
11:10	Nooo	up to 55 Mev / Mayeen Khandaker (Sunway Uni., Malaysia)		
11:30	R367	Uncertainty Quantification of Radiation Source Terms for Thorium- and		
		Uranium-based Medical Isotope Production Targets Irradiated by 100 MeV		
		Protons / Alexey Stankovskiy (SCK-CEN, a Belgian Nuclear Research Centre,		
		Belgium)		
1 1:50	R368	Calculation of Athermal Recombination Corrected Dpa Cross Sections		
		of Materials for Proton, Deuteron and Heavy-ion Irradiations Using the		
12:10	R369	PHITS Code / Yosuke Iwamoto (Japan Atomic Energy Agency) Study of 18 O(p, α) 15 N Reaction at Low Energies / Hossein Rafikheiri (Nu-		
14.10	Noos	clear Science and Technology Research Ins. (NSTRI), Iran)		
12:30	S 370	Evaluation of Photonuclear Reaction Data for Medical Applications /		
		Young-sik Cho (Korea Atomic Energy Research Institute)		

Thu N	1ay 23	14:00-17:50	Room 205
	Topic	Track: Nuclear Data Application	
	Session	Title: Nuclear data in accelerator related a	pplications 3
-	Chair:	Toni Koegler	
14:00	I371	Impact of the ENDF/B-VIII.0 Library on Mod Exploration / Marie-laure Mauborgne (Schlumberg	_
14:30	R372	Total Neutron Cross-section Extracted from Transmission Experiments with Liquid Oxygen Using Neutron Energies from 18 to 34 MeV / Martin Ansorge (Nuclear Physics Institute, CAS, Czech Republic)	
14:50	R373	Neutron Production Double-differential Cross barded by 800 MeV/u 28 Si / Cheolmin Ham (De Sungkyunkwan Uni., Suwon , Korea)	
1 5:10	R374	The Activation of $^{\mathrm{nat}}$ Zr by Quasi-monoenerget / Eva šimečkova (Nuclear Physics Ins. of CAS, Cze	
15:30	R375	Cross Section Determination for TAD Materials in tron Spectrum from P(li) Reaction / Dusan Kr Czech Republic)	
15:50		Break	
	Topic	Track: Nuclear Data Application	
	Session	Title: Particle therapy and radiotherapy	
	Chair:	Marie-laure Mauborgne	
16:10	I376	Single Plane Compton Imaging for Radionuclic Imaging / Toni Koegler (Helmholtz-Zentrum Dres diooncology - OncoRay, Dresden, Germany)	
16:40	R377	Improvements of the Nuclear Reaction Modellin Studies in the FLUKA Monte Carlo Code for Ha (European Organization for Nuclear Research (CE)	ndron Therapy / Giulia Arico
17:00	R378	Production Yields of β^+ Emitters for Range Verlagore (Universidad de Sevilla, Spain) Marco	/ Speaker: Jorge Lerendegui
17:20	R379	Study of Dose Rate in the Brain Model Based SUT-MNSR / Kaijian Li (Suranaree Uni. of Tech Thailand, China)	
17:40	S 380	Multiphysics Modelling of Dose Delivery in Targ Li (Canadian Nuclear Laboratories, Canada)	geted Alpha Therapy / Gang
17:45	S 381	Proton-induced Prompt Gamma-ray Yield of Cain Hadron Therapy / Toni Koegler (OncoRay - Nasearch in Oncology, Faculty of Medicine and Uni Technische Universität Dresden, Helmholtz-Zentrurden, Germany)	Vational Center for Radiation . Hospital Carl Gustav Carus,

Thu M	lay 23	8:30-12:25	Room 301	
	Topic	Track: Nuclear Reaction Measurements		
	Session Title: Nuclear reaction measurements 9			
	Chair:	Massimo Salvatores		
0 8:30	1382	Experiments with Neutron Induced Neutron Emis		
		and Graphite / Yaron Danon (Gaerttner LINAC Cenic Institute, Troy, NY, USA)		
0 9:00	R383	New ²⁰⁹ Bi Photodisintegration Data and Physical		
		ity / Vladimir Varlamov (Faculty of Physics, Lomo Moscow, Russia)	nosov Moscow State Uni.,	
09:20	R384	Isomer Ratios for Products of Photonuclear Reacti	ions on Rh / lhor Kadenko	
		(Taras Shevchenko National Uni. of Kyiv Ukraine)	,	
0 9:40	R385	Evaporation Residue Cross Section Measurement		
		Reactions / Laveen Puthiya Veetil (Department of I	-	
10:00	S 386	Sciences, Central Uni. of Kerala, Kasaragod, India	•	
10:00	3300	Neutron TOF Experiments for Transmission and ¹⁰³ Rh in the Resonance Region / Vivek Raghunath	•	
		Uni., Suwon-, Republic of Korea)	ii Oliavali (Bullgky ulikwali	
10:05	S 387	Double-differential Cross Section Measurement	with Low Threshold De-	
		tector for Proton Production Induced by Several	Tens of MeV Protons /	
40.40	•	Yuji Yamaguchi (Kyushu Uni., Japan)	56-	
10:10	S 388	Measurement of Gamma Ray from Inelastic Neut	_ ,	
10:20		Zhaohui Wang (China Inst. of Atomic Energy, Beiji Break	ing, Ciina)	
	Topic	Track: Nuclear Reaction Measurements		
	_	a Title: Nuclear reaction measurements 10		
	Chair:	Yaron Danon		
10:40	1389	Measurements of (n,2n) Spectrum-averaged	Cross Sections in the	
		Thermal-neutron Induced Fission of U-235: Fixing	g the High Energy Tail of	
11 10	Dago	the PFNS / Roberto Capote (IAEA)	4 LT T . D	
11:10	R390	Neutron Production from Thick LiF, C, Si, Ni, M barded by 13.4-MeV Deuterons / Hayato Takes	•	
		vanced Energy Engineering Science, Kyushu Uni., J	` -	
11:30	R391	Isomeric Cross Section Study of Neutron Induced	= /	
		/ Roza Vlastou-zanni (National Technical Uni. of A	thens, Greece)	
11:50	R392	Recent Results and Error Propagation of the No		
		Cross Section for the Nuclear Data Applications	5 / Surjit Mukherjee (The	
12:10	S 393	M. S. Uni. of Baroda, Vadodara, India) Simulation of Nondestructive Measurement of ⁸⁸ h	Kr Fission Viold Rased on	
12.10	3000	Gamma Ray / Chenqing Wang (Northwest Ins. of N		
12:15	S 394	The cross-section measurement of the ⁶ Li(n,t) rea	==: ,	
		carbide detector at Back-n white neutron source	/ Kang Sun (Ins. of High	
		Energy Physics, CAS, Beijing, China,)		
12:20	S 395	Measurement of the 16 O(n, α) 13 C Reaction Cross	_	
		Frisch Grid Ionisation Chamber. / Sebastian Urlas for Nuclear Research, Geneva, Switzerland)	s (European Organization	
		ioi riucicai riescarcii, Geneva, Dwitzerianu)		

Thu N	/lay 23	14:00-18:05 Room 301
	Topic	Track: Nuclear Reaction Measurements
	Session	Title: Nuclear reaction measurements 11
	Chair:	Andreas Solders
14:00	1396	Recent Progress of Neutron Reaction Data Measurement at CIAE / Xichao Ruan (China Inst. of Atomic Energy)
14:30	R397	Towards Formation of Iaea Database for All Metallic Properties Useful in Radionuclides Production: Effect of Varied Titanium Densities on Excitation Functions. / Ahmed Rufai Usman (Umaru Musa Yar'adua Uni., Katsina, Nigeria)
14:50	R398	Light-nuclei Sub-barrier Nuclear Fusion and Screening Effect / Kaihong Fang (Lanzhou Uiversity, China)
15:10	R399	Cross Sections for A New Nuclear Reaction Channel on Au-197 with Dineutron Escape / Ihor Kadenko (Taras Shevchenko National Uni. of Kyiv, Ukraine)
15:30 15:50	R400	Development of Mc-based Error Estimation Technique of Unfolded Neutron Spectrum by Multiple-foil Activation Method / Katsumi Aoki (Department of Advanced Energy Engineering, Kyushu Uni., Japan) Break
	_	Track: Nuclear Reaction Measurements 1 Title: Nuclear reaction measurements 12
		Xichao Ruan
10.10		
16:10	I 401	Measurement of the ²³⁶ U(n,f) Cross-section at Fast Neutron Energies with Micromegas Detectors / Andrea Tsinganis (CERN, Switzerland) / Speaker: Veatriki Michalopoulou-Petropoulu
16:40	R402	Measurement of the ²³⁵ U(n,f) Cross Section Relative to n-p Scattering up to 1 GeV / Alice Manna (Uni. and INFN of Bologna, Italy)
17:00	R403	Recent Status of Fission Cross-section Measurement at Back-n White Neutron Beam of CSNS / Yiwei Yang (Ins. of Nuclear Physics and Chemistry, CAEP, China)
17:20	R404	Cross Section Measurements for Proton Induced Reactions on Natural Lanthanum / K. V. Seeley (Uni. of Wisconsin, Madison, USA)
17: 40	S 405	Measurement of Fission Cross Sections on 232 Th and 238 U Induced by D-T Neutrons / Qiang Wang (Lanzhou Uni., China)
17:45	S 406	The Equivalent Efficiency Calibration Method of Radioactive Gas Source / Gongshuo Yu (Northwest Ins. of Nuclear Technology (NINT), China)
17:50	S 407	Covariance Analysis on the Thermal Neutron Capture Cross Sections Using An Am-be Neutron Source / Naohiko Otsuka (IAEA)
17:55	\$ 408	Characterization of the Differential Neutron Energy Spectrum from Proton Bombardment of Inconel-clad Lithium Conversion Targets / Christopher Kutyreff (Uni. of Wisconsin-Madison, School of Medicine and Public Health, USA)
18:00	S 409	Measurements of the 33 S(n, α) 30 Si Cross-section at n_TOF-CERN and ILL: Resonance Analysis and Implications. / Javier Praena (Uni. of Granada (Spain))

Thu N	/lay 23	8:30-12:40 Room 302	
	Topic	Track: Data Dissemination and International Collaboration	
	Session	Title: Data dissemination and international collaboration 1	
	Chair:	Franco Michel-sendis	
08:30	I 410	Progress in International Collaboration on EXFOR Library / Naohiko Otsuka $(IAEA)$	
0 9:00	R411	Nuclear Data Web Dissemination Efforts at the NNDC / Tim Johnson (Brookhaven National Lab, USA)	
09:20	R412	MetroBeta: A European Project Providing Access to Accurate Beta Spectra / Mark Kellett (CEA, LIST, Laboratoire National Henri Becquerel (LNHB), CEA-Saclay, 91 191 Gif sur Yvette, France)	
0 9:40	R413	The International Network of Nuclear Structure and Decay Data Evaluators / Paraskevi Dimitriou (IAEA)	
10:00	R414	Overview of the OECD-NEA Working Party on International Nuclear Data Evaluation Cooperation (WPEC) / Michael Fleming (OECD Nuclear Energy Agency, France)	
10:20		Break	
	Topic	Track: Data Dissemination and International Collaboration	
	_	Title: Data dissemination and international collaboration 2	
	Chair:	Naohiko Otsuka	
10:40	I 415	Perspectives on Nuclear Data Verification and Validation at the Data Bank	
		Nuclear Data Service / Franco Michel-sendis (OECD Nuclear Energy Agency, France)	
1 1:10	I 416	Citizen Science in Radiation Research / Cecilia Gustavsson (Department of	
		Physics and Astronomy, Uppsala Uni., Sweden) / Speaker: Mattias Lantz	
11:40	R417	Conceptual Design, Modeling and Development of A Direction-finding Gamma Detector / Zaheen Nasir (Military Ins. of Science & Technology, Bangladesh)	
12:00	R 418	HPRL - International Cooperation to Identify and Monitor Priority Nu-	
12.00	N110	clear Data Needs for Nuclear Applications / Emmeric Dupont (CEA-Irfu, Universitê Paris-Saclay, Gif-sur-Yvette, France)	
12:20	S 419	Recent Dissemination Enhancements and Activities / Tim Johnson	
		(Brookhaven National Lab, USA)	
12:25	S 420	Concentration of 137 Cs in Indonesia Marine Waters / Mohamad Nur Yahya	
4.0.0.0		(National Nuclear Energy Agency of Indonesia)	
12:30	S 421	Development of New Software for Nuclear Data Compilation / Aiganym	
		Sarsembayeva (Department of Physics and Technology, Al-Farabi Kazakh National Uni., Almaty, Kazakhstan)	
12:35	S 422	Gamma Spectroscopy Methodology for Measurements of Large Amounts	
12.00	J-122	of Environmental Samples in Sweden 30 Years after the Chernobyl Accident	
		/ Mattias Lantz (Department of Physics and Astronomy, Uppsala Uni., SE-Uppsala, Sweden)	

Thu N	/lay 23	14:00-16:10	Room 302
	Topic	Track: Nuclear Data Application	
	Session	Title: Nuclear data in fusion application	
	Chair:	Rafael Rivera	
14:00	1423	Nuclear Data Activities of the EUROfusion Consosruhe Ins. of Technology (KIT), Germany)	rtium / Ulrich Fischer (Karl-
14:30	I424	Validation of Theory of Radiation Damage Agains Ogorodnikova (National Research Nuclear Uni. "Mi	, =
15:00	R425	Comparison Between Measurement and Calculati Water Activation Experiment / Mario Pillon (ENE	
15:20	R426	A Comparative Survey of Evaluated Nuclear D Fusion-relevant Activation Foils Spectrometry E (Karlsruhe Ins. of Technology, Germany)	_
15:40	S 427	Cross-section and Activation Data for Long-lived with Their Impact in Fusion Reactor Technology Ballabh Pant Uni. of Agriculture and Technology India)	/ Bhawna Pandey (Govind
15:50		Break	

 ${\bf 16:10\hbox{-}18:00} \qquad {\bf EG\hbox{-}GNDS \ Side\hbox{-}meeting}$

Thu N	lay 23	8:30-12:30	Room 303
	Topic	Track: Spallation, High and Intermediate Ener	gy Reactions
	Session	n Title: Spallation, high and intermediate energ	y reactions 2
	Chair:	Zhiqiang Chen	
08:30	I428	A Comprehensive Study of Spallation Models for Pro	· · · · · · · · · · · · · · · · · · ·
		Product Yields Utilized in Transport Calculation /	Hiroki Iwamoto (Japan
00.00	D 490	Atomic Energy Agency)	ted Cuelletien Tennete
0 9:00	R429	Distribution of Neutron and Proton Field in Elonga / Miroslav Zeman (Brno Uni. of Technology, Czech Ro	
09:20	R430	Production Cross Sections of Long-lived Radionuclid	es in Proton Irradiated
		Pb, Ta and W Targets / Zeynep Talip (Paul Scherrer	· · · · · · · · · · · · · · · · · · ·
09:40	R431	Neutron Energy Spectra Measurements of the B	
		Source at CSNS / Yonghao Chen (Ins. of High E	Energy Physics Chinese
10:00	R432	Academy of Science, China) Neutron Imaging at the n_TOF Facility of CERN /	Endorias Mingropa (Fu
10.00	N492	ropean Organization for Nuclear Research (CERN), S	_ ,
		Michael Bacak	switzeriana) / Speaker.
10:20		Break	
	Topic	Track: Nuclear Data Processing and Validation	1
	Session	n Title: Integral experiments 1	
	Chair:	Ivan Kodeli	
10:40	l 433	Current Overview of ICSBEP and IRPhEP Benchman	
11 10	D 49.4	/ John Darrell Bess (Idaho National Laboratory, USA	<i>'</i>
11:10	R434	A Study on Integral Parameters of VVER Critical Based on Evaluated Nuclear Data Library ENDF/B	•
		Zaheen Nasir (Military Ins. of Science & Technology,	,
11:30	R435	Combining Correlations from Multiple Criticality Be	_ ,
		Data Adjustments Within A Total Monte Carlo Fra	mework / Erwin Alhas-
		san (Laboratory for Reactor Physics and Thermal-Hy	draulics, Paul Scherrer
		Institute, 5232 Villigen, Switzerland)	
11:50	R436	Validation of Heavy Water Cross Section Using Ar	•
10.10	D497	Michal Kostal (Research Center Rez, Czech Republic)	
12: 10	R437	Nuclear Data Implications of Tex, Ten New Critical tonium and Tantalum / Catherine Percher (Lawren	•
		Laboratory, USA)	ico hivermore riamonar
		Laboratory, USA)	

Thu M	lay 23	14:00-18:05	Room 303
	Topic	Track: Nuclear Data Processing and Validation	n
	Session	n Title: Integral experiments 2	
	Chair:	John Darrell Bess	
14:00	I 438	National Criticality Experiments Research Center (N	, -
14.00	D 400	Recent Measurements / Nicholas Thompson (LANL	•
14:30	R439	Fusion Neutronics Integral Experimental Study of Data / Suyalatu Zhang (Ins. of low-intermediate energy	
		Mongolia Uni. for Nationalities, China)	gy nuclear reactions, inner
14:50	R 440	ZED-2 Reactor as a Physics Test Facility for Valid	dating Evaluated Nuclear
		Data Libraries / J.c. Chow (Canadian Nuclear Labor	_
		tario, Canada, K0J 1J) / Speaker: Jimmy Chow	
15: 10	R 441	Contributions to Integral Nuclear Data in ICSBEP ar	
		/ John Darrell Bess (Idaho National Laboratory, USA	*
15:30	R442	Measurement of the Delayed-neutron Yield and Tin	
		Neutron Induced Fission of ²³⁵ U at III / Olivier Serger ergies and Atomic Energy Commission (CEA), France	
15:50		Break	?)
	_	Track: Nuclear Data Processing and Validation Title: Integral experiments 3	n
		-	
10.10		Nicholas Thompson	
16:10	I 443	Use of Shielding Integral Benchmark Archive and D Validation / Ivan Kodeli (Jozef Stefan Institute, Ljub	
16:40	R444	Bayesian Monte Carlo Assimilation for the PETALE	- ,
10.40	1111	Using Inter-dosimeter Correlation / Axel Laureau	
		Physics and Systems behaviour (LRS), Ecole Polytech	`
		(EPFL), CH-1015 Lausanne, Switzerland)	-
17:00	R 445	The Benchmark Experiment on Slab Iron with D-t N	Neutrons for Validation of
		Evaluated Nuclear Data / Yanyan Ding (China Inst.	G0 /
17:20	R446	Neutron Spectra Measurement and Calculation Usi	
		of Data Libraries CIELO, ENDF, CENDL and JEFF in	
17:40	R447	mark Assemblies. / Bohumil Jansky (Research Centr Measurement of Leakage Neutron Spectra with D-t	*
17:40	N44 <i>1</i>	of Evaluated Nuclear Data / Rui Han (Ins. of Modern	
		of Sciences, China)	2 mg stoot, Chilliono Housefully
18:00	S 448	Research on Doppler Broadening Rejection Correct	ion Based on 0K Nuclear
		Data / Shenglong Qiang (Nuclear Power Ins. of China	

Fri May 24		8:30-12:20	Auditorium	
	Topic	Track: Plenary B		
	Session	n Title: Plenary B1		
	Chair:	Arjan Plompen		
08:30	L449	ENDF/B-VIII.0 and Beyond / David Brown (Iter/Brookhaven National Laboratory, USA)	National Nuclear Data Cen-	
0 9:05	L450	Challenges in Actinides Evaluation: PFNS and the Next Pu Evaluation $/$ Roberto Capote (IAEA)		
0 9:40	L 451	Nuclear reaction data in the next decade and $\operatorname{Koning}\ (\operatorname{IAEA})$	the role of TALYS $/$ $Arjan$	
10:15		Break		
	Topic	Track: Plenary B		
	Session	on Title: Plenary B2		
	Chair:	David Brown		
10:35	L452	The Leverage of Nuclei in the Cosmos / Micha	el Smith (ORNL, USA)	
1 1:10	L453	Results of the Collaborative International Evaluated Library Organisation		
		(CIELO) Project / Mark Chadwick (LANL, USA)) / Speaker: Michael Fleming	
11:45	L454	CSNS Back-n White Neutron Facility and Fin		
		ments / Jingyu Tang For The Back-n Collabo Physics - Dongguan Branch, CAS, Dongguan, G	, ,	

Closing Ceremony

Chair: Zhigang Ge

12:20-12:40 Summary remarks , Acknowledgement and Conference closing